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1987 Annual Statistical Report

AMERICAN IRON AND STEEL INSTITUTE

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Annual Statistical Report

AMERICAN
IRON AND STEEL
INSTITUTE
1987

AMERICAN IRON AND STEEL INSTITUTE
1133 15TH STREET, N.W., WASHINGTON, D.C. 20005

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NOTES

D—Disclosure
P—Preliminary
R—Revised
n.a.—Not available
Net ton—2,000 pounds
Gross ton—2,240 pounds
( ) Indicates loss or negative number.
Rounded figures do not necessarily add to totals.

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

SELECTED HIGHLIGHTS
THE IRON AND STEEL INDUSTRY AT A GLANCE

The Selected Statistical Highlights present a nine or ten-year trend from which comparisons of year-to-year changes may be made for those items of the industry that are indicative of the operating level and the financial status of reporting companies. In the use of the highlights, it should be recognized that there may be a difference in the universe of reporting companies for the major items in the statistical section. This is especially significant for the financial series as compared to other series; for example, the universe for financial data for 1986 and 1987 represents companies who in 1987 produced 77% of the reported raw steel production.

SELECTED STATISTICAL HIGHLIGHTS

Table 1A

Shipments, Apparent Supply, Imports & Employment

(Thousands)

	Steel Mill Products—Net Tons				Imports as % of U.S. Apparent Steel Supply					Steel Employment (a)
Year	Total Net Shipments	Less Exports	Plus Imports	U.S. Apparent Steel Supply	Total	Japan	EEC	Canada	Other	Average No. of Employees
1987	76,654	1,129	20,414	95,940	21.3	4.5	6.0	3.8	7.0	163
1986	70,263	929	20,692	90,026	23.0	4.9	7.3	3.6	7.2	175
1985	73,043	932	24,256	96,367	25.2	6.2	7.2	3.0	8.8	208
1984	73,739	980	26,163	98,922	26.4	6.7	6.4	3.2	10.1	236
1983	67,584	1,199	17,070	83,455	20.5	5.1	4.9	2.9	7.6	243
1982	61,567	1,842	16,663	76,388	21.8	6.8	7.3	2.4	5.3	289
1981	88,450	2,904	19,898	105,444	18.9	5.9	6.1	2.7	4.2	391
1980	83,853	4,101	15,495	95,247	16.3	6.3	4.1	2.5	3.4	399
1979	100,262	2,818	17,518	114,962	15.2	5.5	4.7	2.0	3.0	453
1978	97,935	2,422	21,135	116,648	18.1	5.6	6.4	2.0	4.1	449
Details on Page:	24	34	44		47	47	47	47	47	15

(a) Covering only those employees engaged in the production and sale of iron and steel products and excludes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities.

Table 1B

Raw Steel Data

(Thousands of net tons)

		United States				Percent of U.S. Production				
						By Type of Furnace			By Type Cast	
Year	World Production	Production	% of World	Capability	% of capability	OH	BOP	Elec.	Ingots	Continuous
1987	812,641	89,151	11.0	112,200	79.5	3.0	58.9	38.1	40.1	59.8
1986	788,948[R]	81,606	10.3	127,000	63.8	4.1	58.7	37.2	44.7	55.2
1985	792,947	88,259	11.1	133,600	66.1	7.3	58.8	33.9	55.5	44.4
1984	782,590	92,528	11.8	135,300	68.4	9.0	57.1	33.9	60.3	39.6
1983	730,930	84,615	11.6	150,600	56.2	7.0	61.5	31.5	67.8	32.1
1982	710,738	74,577	10.5	154,000	48.4	8.2	60.7	31.1	70.9	29.0
1981	779,399	120,828	15.5	154,300	78.3	11.1	60.6	28.3	78.2	21.6
1980	790,419	111,835	14.2	153,700	72.8	11.7	60.4	27.9	79.5	20.3
1979	824,486	136,341	16.5	155,300	87.8	14.0	61.1	24.9	82.9	16.9
1978	790,607	137,031	17.3	157,900	86.8	15.6	60.9	23.5	84.6	15.2
Details on Page:	96	64	96		67	64	64	64	65	65

SELECTED FINANCIAL HIGHLIGHTS

Table 1C

Income Data

(Millions of Dollars)

	Steel Segment Results		
		Net Income	
Year	Net Sales	Amount	% of Net Sales
1987	$26,840	$1,017	3.8
1986[R]	24,875	(4,150)	(16.7)
1985	28,272	(1,834)	(6.5)
1984	30,005	(31)	(0.1)
1983	24,463	(2,231)	(9.1)
1982	28,239	(3,384)	(12.0)
1981	43,109	1,653	3.8
1980	37,163	681	1.8
1979	40,373	806	2.0
Details on Page: 10		10	10

Table 1D

Cash Flow Data

(Millions of Dollars)

	Steel Segment Results			
		Net Cash Provided (Used) from		Inc. (Dec.) In Cash &
Year	Capital Expend.	Operations	Financing	Mkt. Secs.
1987	$1,160	$ 619	$ 416	$ 203
1986[R]	862	1,439	1,239	200
1985	1,641	(427)	353	(74)
1984	1,203	(428)	296	(132)
1983	1,850	(1,858)	1,556	(302)
1982	2,258	(1,990)	1,766	(224)
1981	2,371	689	(692)	(3)
1980	2,651	(748)	602	(146)
1979	2,469	(436)	221	(216)
Details on Page: 12		12	12	12

FINANCIAL STATISTICS

Financial data for 1986 and 1987 includes companies which made up 77% of the reported total raw steel production of the entire industry in 1987. Other years are based on results of companies representing varying percentages of the entire industry.

Beginning with this edition, the financial tables included are for the Steel Segments of the businesses only. These statements representing the steel industry are statistical only, since the allocation of some items on the balance sheet, such as long term debt, deferred taxes and equity between steel and non-steel operations, requires each participating company to exercise judgement based on its individual facts and circumstances.

Table 2

Income Statement
Steel Segment

(Millions of Dollars)

	1987	1986[R]	1985	1984	1983	1982	1981	1980	1979
REVENUES:									
Sales (Net billing value of products shipped and other services)	$26,839.5	$24,875.2	$28,272.3	$30,005.2	$24,462.8	$28,238.6	$43,109.3	$37,162.7	$40,373.1
Interest, dividends and other income	105.6	160.8	162.2	328.1	514.8	492.0	653.8	583.7	418.4
Total Revenue	**26,945.2**	**25,036.0**	**28,434.4**	**30,333.3**	**24,977.6**	**28,730.6**	**43,763.1**	**37,746.4**	**40,791.5**
COSTS:									
Employment Costs	7,443.6	7,543.7	8,822.3	9,334.5	8,650.8	12,199.4	15,165.2	13,826.2	14,117.9
Materials, supplies, freight and other services, etc.	16,363.4	15,364.1	18,034.2	18,779.7	15,664.6	17,181.9	24,201.9	21,181.0	23,085.2
Depreciation, depletion and amortization	1,285.8	1,301.1	1,343.8	1,374.7	1,290.5	1,471.6	1,617.5	1,528.1	1,482.9
Interest and other financial costs	529.3	637.0	713.4	774.3	616.5	600.0	487.4	499.3	489.1
Taxes other than income	364.9	376.7	362.7	359.9	371.2	NA	NA	NA	NA
Loss or (gain) on sales of assets	(.3)	(45.6)	.3	(309.9)	(20.0)	2,021.4	(132.0)	34.7	759.9
Loss or (gain) on provision for costs attributable to shutdown of facilities	170.8	631.5	966.9	112.8	1,508.1	—	—	—	—
Unusual items	(202.1)	3,813.5	77.2	77.8	24.5	(24.8)	(28.5)	—	—
Taxes on income	(101.9)	(448.3)	(35.4)	21.0	(720.4)	(1,335.1)	798.2	(3.9)	50.8
Total Costs	**25,853.6**	**29,175.8**	**30,285.4**	**30,524.8**	**27,385.8**	**32,114.4**	**42,109.7**	**37,065.4**	**39,985.8**
Extraordinary and other items net of taxes	(74.3)	(10.1)	16.9	161.0	177.1	NA	NA	NA	NA
Net Income	**$ 1,017.3**	**$ (4,149.9)**	**$ (1,834.0)**	**$ (30.5)**	**$ (2,231.1)**	**$ (3,383.8)**	**$ 1,653.4**	**$ 681.0**	**$ 805.7**
Percent return on Sales	3.8	(16.7)	(6.5)	(0.1)	(9.1)	(12.0)	3.8	1.8	2.0

Totals do not necessarily add due to rounding.
MEMO: In 1987 reporting companies represent: 68.2 million net tons of raw steel production and 55.4 million net tons of shipments of finished steel products.

Table 3

Balance Sheet
Steel Segment

(Millions of Dollars)

ASSETS	1987	1986[R]	1985	1984	1983	1982	1981	1980	1979
Current Assets:									
Cash and marketable securities	$ 614.4	$ 423.1	$ 237.5	$ 402.1	$ 606.9	$ 952.5	$ 1,157.7	$ 1,151.9	$ 1,293.6
Receivables, less allowances	3,696.9	2,863.7	3,117.5	3,213.0	3,408.3	2,727.5	4,385.5	4,710.1	3,939.3
Inventories	3,222.2	3,045.8	3,546.2	4,216.5	3,320.7	4,034.4	5,379.4	4,693.6	5,039.6
Other Current Assets	177.2	129.7	116.8	198.8	204.7	226.5	193.7	263.3	161.0
Total Current Assets	**7,710.7**	**6,462.3**	**7,018.0**	**8,030.4**	**7,540.6**	**7,940.9**	**11,116.3**	**10,818.9**	**10,433.5**
Long-term receivables & other investments	844.5	755.8	903.1	1,047.5	1,700.0	NA	NA	NA	NA
Fixed Assets:									
Property, plant & equipment	31,656.7	32,614.0	33,927.7	35,198.4	34,283.2	38,518.5	38,971.2	37,716.9	36,000.5
Less—Depreciation, depletion & amortization	18,607.4	19,185.7	18,236.3	18,589.0	18,401.8	20,681.5	20,768.4	19,976.2	19,163.4
Net Fixed Assets	13,049.3	13,428.3	15,691.4	16,609.4	15,881.4	17,837.0	18,202.8	17,740.7	16,837.1
Other Assets	327.6	309.9	337.6	499.6	349.3	2,101.3	2,376.7	2,210.6	2,001.7
Total Assets	**$21,932.2**	**$20,956.3**	**$23,950.1**	**$26,186.9**	**$25,471.3**	**$27,879.2**	**$31,695.8**	**$30,770.2**	**$29,272.3**
LIABILITIES AND STOCKHOLDERS' EQUITY									
Current Liabilities:									
Accounts Payable	$ 2,229.6	$ 1,658.1	$ 2,158.1	$ 2,261.4	$ 2,287.6	$ NA	$ NA	$ NA	$ NA
Accrued taxes incl. Federal income taxes	578.5	403.6	508.6	485.1	385.5	NA	NA	NA	NA
Long-term debt maturing within one year	295.3	300.1	294.4	571.4	255.9	197.8	266.5	128.1	163.5
All other current liabilities	1,959.0	1,674.8	2,564.7	2,392.0	2,726.8	5,136.4	6,418.7	6,442.7	6,049.1
Total Current Liabilities	**5,062.3**	**4,036.6**	**5,525.8**	**5,709.9**	**5,655.8**	**5,334.2**	**6,685.2**	**6,570.8**	**6,212.6**
Long-term debt less amount maturing within one year	5,329.5	5,409.4	6,874.6	6,380.0	7,208.2	7,817.9	6,163.7	6,822.5	5,988.4
Deferred income tax	206.3	177.4	188.2	277.1	264.2	750.2	1,696.4	1,128.6	978.2
Liabilities attributable to shutdown of facilities	1,551.9	1,488.9	2,089.3	2,019.7	2,085.7	NA	NA	NA	NA
All other other long-term liabilities & reserves	6,752.8	7,185.9	2,087.2	2,138.2	1,809.8	2,697.3	1,759.0	1,759.5	1,749.2
Minority interest in companies not wholly owned	18.2	14.8	17.4	22.8	18.2	19.5	30.9	31.1	35.0
Total Liabilities	**18,921.0**	**18,313.0**	**16,782.5**	**16,547.7**	**17,041.9**	**16,619.1**	**16,335.2**	**16,312.5**	**14,963.4**
Redeemable preferred stock (RPS)	127.6	226.6	226.5	228.2	228.3	—	—	—	—
Stockholders' Equity	**2,883.5**	**2,416.7**	**6,941.1**	**9,411.0**	**8,201.1**	**11,260.1**	**15,360.6**	**14,457.7**	**14,308.9**
Total Liabilities RPS and Stockholders' Equity	**$21,932.2**	**$20,956.3**	**$23,950.1**	**$26,186.9**	**$25,471.3**	**$27,879.2**	**$31,695.8**	**$30,770.2**	**$29,272.3**
Memo: LIFO inventory reserves included above	$ 1,868.1	$ 2,195.2	3,026.8	$ 3,497.6	$ 2,750.6	$ 5,101.7	$ 6,067.1	$ 5,800.8	$ 5,115.0

Table 4

Cash Flow Statement
Steel Segment

(Millions of Dollars)

	1987	1986[R]	1985	1984	1983	1982	1981	1980	1979
Cash Provided From Operations									
Net Income	$ 1,015.7	$ (4,131.9)	$ (1,803.0)	$ (92.7)	$ (2,235.0)	$ (3,384.4)	$ 1,653.8	$ 681.4	$ 806.6
Depreciation	1,292.6	1,301.1	1,343.7	1,373.0	1,292.1	1,481.2	1,636.1	1,547.2	1,502.7
Deferred Income Taxes	29.7	(485.5)	(55.4)	42.8	(722.9)	(854.4)	762.9	255.8	(144.6)
Other noncash P&L items	28.1	4,622.6	1,017.0	156.2	1,366.2	2,036.6	(39.8)	8.2	677.5
Total from earnings	2,366.0	1,306.3	502.2	1,479.3	(299.6)	(721.0)	4,013.0	2,492.6	2,842.2
Changes in working capital	(433.6)	965.8	527.1	(829.0)	(94.1)	1,677.3	(463.6)	50.0	(297.2)
Cash provided from operations	1,932.4	2,272.0	1,029.4	650.3	(393.7)	956.3	3,549.4	2,542.6	2,545.0
Cash provided (used) for non operating units	3.8	(40.6)	(115.3)	(145.6)	(160.6)	63.3	(161.2)	(83.6)	(45.1)
Cash (used) for Dividends	(188.1)	(120.5)	(138.7)	(201.5)	(203.3)	(413.8)	(774.9)	(714.6)	(521.3)
Long Term Investments									
Additions to plant and equipment	(1,160.3)	(862.0)	(1,640.9)	(1,203.1)	(1,850.2)	(2,258.2)	(2,370.6)	(2,650.6)	(2,469.4)
Disposals of plant and equipment	279.3	505.5	293.1	210.7	48.5	602.8	166.2	227.1	51.7
Other provided (used)	(248.1)	(315.2)	145.6	260.9	701.0	(940.6)	279.6	(69.1)	2.7
Cash (used) from operations	(1,129.1)	(671.7)	(1,202.3)	(731.5)	(1,100.7)	(2,596.0)	(1,924.8)	(2,492.6)	(2,415.0)
Net cash provided (used) from operations	619.0	1,439.2	(426.9)	(428.3)	(1,858.3)	(1,990.2)	688.5	(748.2)	(436.4)
Cash Provided From (Used For) Financing									
Net Additions/Reduction In:									
Transfers (to) from corporate	(247.5)	(865.9)	(299.8)	(435.4)	46.5	(242.6)	(186.4)	(87.5)	(94.5)
Long term debt	(345.9)	(88.5)	504.4	62.4	524.1	1,814.7	(638.4)	805.8	244.1
Short term debt	(18.8)	(384.6)	(15.0)	524.7	51.3	106.7	121.3	(179.5)	51.8
Stock	196.5	99.9	162.9	144.4	934.1	87.2	11.5	63.3	19.1
Net cash Provided from (used for) financing	(415.7)	(1,239.1)	352.5	296.1	1,556.0	1,766.0	(692.0)	602.1	220.5
Increase (decrease) in cash and marketable securities	$ 203.3	$ 200.1	$ (74.4)	$ (132.2)	$ (302.3)	$ (224.2)	$ (3.5)	$ (146.1)	$ (215.9)

EMPLOYMENT AND WAGE DATA

The data on number of employees, hours worked, employment cost, payroll cost per hour and employment cost per hour as shown on tables 5 and 6 cover those employees engaged in the operation of coke ovens, blast furnaces, steel-making furnaces and finishing mills, etc. and the sale of products thereof as reported by companies comprising about 81% of 1987 total raw steel production.

Indexes on output per manhour in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

Table 5

Total Employment Cost per Hour Worked—Wage Employees

(Covering those employees engaged in the production of iron and steel products)

Year	Pay for Hours Worked						Memo	Other Payroll Costs						Year
	Straight Time					Subtotal								
	Regular (1)	Shift Differential (2)	Sunday Premium (3)	Overtime Premium (4)	Premium For Work On Holidays (5)	Pay For Hours Worked (6)	Average Hourly Earnings In Steel (BLS) (7)	Pay for Holidays Not Worked (8)	Vacation Pay (9)	All Other (10)	Total Payroll Cost Per Hour (11)	Employee* Benefits Cost Per Hour (12)	Total Employment Cost Per Hour (13)	
1987	$13.034	$.151	$.302	$.800	$.242	$14.529	$14.54	$.255	$1.038	$.399	$16.221	$7.486	$23.707	1987
1986	13.224	.157	.294	.671	.284	14.630	14.53	.301	1.109	.179	16.219	7.023	23.242	1986
1985	13.023	.157	.244	.574	.274	14.272	13.98	.339	1.269	.117	15.997	6.815	22.812	1985
1984	12.570	.158	.234	.514	.255	13.731	13.53	.312	1.135	.165	15.343	5.955	21.298	1984
1983	12.548	.156	.255	.409	.259	13.627	13.40	.366	.968	.133	15.094	7.119	22.213	1983
1982	13.012	.157	.375	.276	.235	14.055	13.96	.499	2.165	.089	16.808	6.973	23.781	1982
1981	12.092	.171	.434	.432	.298	13.427	13.11	.350	1.601	.071	15.449	4.709	20.158	1981
1980	10.971	.135	.377	.336	.295	12.114	11.84	.333	1.574	.156	14.177	4.274	18.451	1980
1979	9.822	.121	.368	.427	.281	11.019	10.77	.247	1.230	.055	12.551	3.370	15.921	1979
1978	8.890	.120	.333	.391	.242	9.976	9.70	.194	1.051	.049	11.270	3.033	14.303	1978

*Includes cost for retired employees as well as active.

Table 6

Number of Employees, Hours Worked and Employment Cost

(Covering those employees engaged in the production and sale of iron and steel products)

Year	Employees Receiving Wages					Employees Receiving Salaries			All Employees Receiving Wages and Salaries					Year
	Average Number of Employees	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Employment Cost (millions)	Total Employment Cost Per Hour	Average Number of Employees	Total Hours Worked (000)	Employment Cost (Millions)	Average Number of Employees	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Employment Cost (Millions)	Total Employment Cost Per Hour	
1987	120,865	261,631	41.5	$6,202.5	$23.707	42,473	92,509	$2,378.0	163,338	354,140	41.6	$8,580.4	$24.229	1987
1986	128,418	259,173	38.7	6,023.8	23.242	46,365	96,719	2,362.9	174,783	355,892	39.1	8,386.7	23.565	1986
1985	150,906	300,456	38.2	6,854.1	22.812	57,262	118,292	2,887.0	208,168	418,747	38.6	9,741.1	23.262	1985
1984	170,694	339,228	38.0	7,224.9	21.298	65,308	134,838	3,119.5	236,002	474,067	38.4	10,344.4	21.821	1984
1983	168,852	324,997	36.9	7,219.1	22.213	73,893	149,814	3,459.4	242,745	474,811	37.5	10,678.5	22.490	1983
1982	198,477	345,093	33.3	8,206.6	23.781	90,960	180,535	4,197.9	289,437	525,628	34.8	12,404.5	23.599	1982
1981	286,219	543,324	36.4	10,952.4	20.158	104,695	209,373	4,626.7	390,914	752,697	36.9	15,579.1	20.698	1981
1980	291,483	544,220	35.7	10,041.6	18.451	107,346	213,575	4,196.1	398,829	757,795	36.3	14,237.7	18.788	1980
1979	341,931	669,045	37.5	10,651.8	15.921	111,250	225,033	3,996.0	453,181	894,078	37.8	14,647.8	16.383	1979
1978	339,155	669,720	37.9	9,578.8	14.303	110,042	222,462	3,600.1	449,197	892,182	38.1	13,178.9	14.771	1978

Memo: Net shipments (thousand net tons) for companies reporting employment data are as follows: 1987—59,071; 1986—54,352; 1985—60,482; 1984—62,158; 1983—57,139;

Table 7

BLS Index of Output Per Man-hour in the Steel Industry

(All Employees)

Year	1978 = 108.3
1977	100.0
1978	108.3
1979	106.9
1980	102.9
1981	112.0
1982	90.9
1983	116.8
1984	131.3
1985[R]	139.5
1986[R]	141.9
1987[P]	149.4
Average Annual Increase* 1977–1987	3.8

**Based on least squares method.*

Source: United States Department of Labor, Bureau of Labor Statistics.

NOTE: Although the output per man-hour data relate output to one input—labor time—they do not measure the specific contribution of labor, of capital, or of any other factor to production. In short, they do not reflect solely changes in the productiveness of labor. Rather, they reflect the joint effect of a number of interrelated influences such as changes in technology, capital investment per worker, utilization of capacity, layout and flow of material, skill of the work force, managerial skill, and labor-management relations.

Table 8

Occupational Injury/Illness

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 76% of total 1987 raw steel production)

	1987	1986	1985	1984	1983
1. Aggregate number of man-hours (millions)	330	330	402	462	468
2. OSHA recordable injuries/illnesses:					
a. Fatalities	16	22	16	21	25
b. Lost workday cases	7,175	4,293	4,448	5,090	4,587
c. Other medical treatment cases	15,950	9,240	10,037	11,180	11,232
d. **Total** (2a through 2c)	**23,141**	**13,555**	**14,501**	**16,291**	**15,844**
3. Frequency rate (number of injuries/illnesses per 200,000 man-hours worked)	14.029	8.217	7.211	7.054	6.773
4. OSHA workdays lost (thousands)	200	147	135	145	126
5. Severity rate (days lost per 200,000 man-hours worked)	121	89	67	63	54

NOTE: Recordable injuries are reported as specified by the Bureau of Labor Statistics, U.S. Department of Labor pursuant to Section 24(a) of the Occupational Safety and Health Act of 1970.

The U.S. Department of Labor, Bureau of Labor Statistics issued revised record keeping guidelines for Occupational Injury and Illness effective April 1986.

Reporting companies have issued their 1987 figures to reflect the new guidelines; therefore, results may not be comparable to past years.

SHIPMENTS—STEEL PRODUCTS

Data in this section are expressed in terms of Gross Shipments and Net Shipments. Gross shipments represent the aggregate tonnage shipped by reporting companies including steel consumed by the companies in their own construction, maintenance, repair and operations, as well as in their own manufacture of fabricated products. Net shipments eliminate tonnage duplication by deducting from the gross total those shipments from one reporting company to another reporting company for conversion, further processing or resale.

Table 9

Shipments of Steel Mill Products—1987
All Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Shipments
Ingots and steel castings	806,851	425,437	381,414	0.5
Blooms, slabs, billets	2,538,903	1,327,101	1,211,802	1.6
Skelp	30,171	8,199	21,972	—
Wire rods	3,883,270	42,776	3,840,494	5.0
Total Semi-Finished	**7,259,195**	**1,803,513**	**5,455,682**	**7.1**
Structural shapes (3" & over)	4,839,409	—	4,839,409	6.3
Steel piling	280,305	—	280,305	0.4
Plates	4,055,049	7,130	4,047,919	5.3
Total Shapes and Plates	**9,174,763**	**7,130**	**9,167,633**	**12.0**
Rails—Standard (over 60 lbs.)	350,704	—	350,704	0.5
—All other	14,796	—	14,796	—
Railroad accessories	62,024	—	62,024	0.1
Wheels (rolled and forged)	57,691	—	57,691	0.1
Axles	29,432	—	29,4327	—
Total Rails and Accessories	**514,647**	—	**514,647**	0.7
Bars—Hot rolled	6,634,318	585,925	6,048,393	7.9
—Bar-Size light shapes	1,189,572	—	1,189,572	1.6
—Reinforcing	4,917,629	—	4,917,629	6.4
—Cold finished	1,361,490	405	1,361,085	1.8
Tool steel	60,180	1,745	58,435	0.1
Total Bars and Tool Steel	**14,163,189**	**588,075**	**13,575,114**	**17.7**

Table 9 *(Continued)*

Shipments of Steel Mill Products—1987
All Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Shipments
Pipe and tubing—Standard	988,263	18,932	969,331	1.3
—Oil country goods	942,007	22,584	919,423	1.2
—Line	620,526	122	620,404	0.8
—Mechanical	767,252	265	766,987	1.0
—Pressure	71,524	—	71,524	0.1
—Structural	180,198	—	180,198	0.2
—Stainless	42,086	306	41,780	0.1
Total Pipe and Tubing	**3,611,856**	**42,209**	**3,569,647**	**4.7**
Wire—Drawn	800,352	289	800,063	1.0
—Nails and staples	218,054	—	218,054	0.3
—Barbed and twisted	48,937	—	48,937	0.1
—Woven wire fence	12,608	—	12,608	—
—Bale ties and baling wire	25,162	—	25,162	—
Total Wire and Wire Products	**1,105,113**	**289**	**1,104,824**	**1.4**
Black plate	204,586	—	204,586	0.3
Tin plate	2,765,246	—	2,765,246	3.6
Tin free steel	938,513	—	938,513	1.2
Tin mill products—All other	79,331	—	79,331	0.1
Total Tin Mill Products	**3,987,676**	**—**	**3,987,676**	**5.2**
Sheets—Hot rolled	14,457,076	1,408,914	13,048,162	17.0
—Cold rolled	13,908,564	49,067	13,859,497	18.1
Sheets & strip—Galvanized—Hot dipped	7,662,809	2,929	7,659,880	10.0
—Electrolytic	1,431,768	—	1,431,768	1.9
—All other metallic coated	1,227,987	—	1,227,987	1.6
—Electrical	465,835	1,218	464,617	0.6
Strip—Hot rolled	740,989	83,577	657,412	0.9
—Cold rolled	934,835	5,540	929,295	1.2
Total Sheets and Strip	**40,829,863**	**1,551,245**	**39,278,618**	**51.2**
Total Shipments	**80,646,302**	**3,992,461**	**76,653,841**	**100.0**

Table 10

Shipments of Steel Mill Products—1987
By Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Ingots and steel castings	171,981	0.3	197,699	2.8	11,734	0.8	381,414	0.5
Blooms, slabs, billets	794,199	1.2	352,273	4.9	65,330	4.6	1,211,802	1.6
Skelp	21,972	—	—	—	—	—	21,972	—
Wire rods	3,738,320	5.5	54,420	0.8	47,754	3.4	3,840,494	5.0
Total Semi-Finished	**4,726,472**	**6.9**	**604,392**	**8.5**	**124,818**	**8.8**	**5,455,682**	**7.1**
Structural shapes (3" & over)	4,410,878	6.5	428,531	6.0	—	—	4,839,409	6.3
Steel piling	249,186	0.4	31,119	0.4	—	—	280,305	0.4
Plates	2,840,399	4.2	1,048,439	14.7	159,081	11.2	4,047,919	5.3
Total Shapes and Plates	**7,500,463**	**11.0**	**1,508,089**	**21.2**	**159,081**	**11.2**	**9,167,633**	**12.0**
Rails:								
Standard (over 60 lbs.)	332,926	0.5	17,778	0.2	—	—	350,704	0.5
All other	14,796	—	—	—	—	—	14,796	—
Railroad accessories	62,024	0.1	—	—	—	—	62,024	0.1
Wheels (rolled and forged)	57,691	0.1	—	—	—	—	57,691	0.1
Axles	29,432	—	—	—	—	—	29,432	—
Total Rails and Accessories	**496,869**	**0.7**	**17,778**	**0.2**	**—**	**—**	**514,647**	**0.7**
Bars:								
Hot rolled	4,530,767	6.7	1,479,354	20.8	38,272	2.7	6,048,393	7.9
Bar-size light shapes	1,189,572	1.7	(Included in hot rolled bars)				1,189,572	1.6
Reinforcing	4,879,398	7.2	38,231	0.5	—	—	4,917,629	6.4
Cold finished	1,089,304	1.6	184,612	2.6	87,169	6.1	1,361,085	1.8
Tool steel	—	—	58,435	0.8	—	—	58,435	0.1
Total Bars and Tool Steel	**11,689,041**	**17.2**	**1,760,632**	**24.7**	**125,441**	**8.8**	**13,575,114**	**17.7**
Pipe and tubing:								
Standard	947,522	1.4	21,809	0.3	—	—	969,331	1.3
Oil country goods	702,849	1.0	216,574	3.0	—	—	919,423	1.2
Line	529,575	0.8	90,829	1.3	—	—	620,404	0.8
Mechanical	513,996	0.8	252,991	3.6	—	—	766,987	1.0
Pressure	52,855	0.1	18,669	0.3	—	—	71,524	0.1
Structural	180,198	0.3	—	—	—	—	180,198	0.2
Stainless	—	—	—	—	41,780	2.9	41,780	0.1
Total Pipe and Tubing	**2,926,995**	**4.3**	**600,872**	**8.4**	**41,780**	**2.9**	**3,569,647**	**4.7**

Table 10 *(continued)*

Shipments of Steel Mill Products—1987
By Grades—(Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Wire:								
Drawn	750,354	1.1	22,975	0.3	26,734	1.9	800,063	1.0
Nails and staples	218,054	0.3	—	—	—	—	218,054	0.3
Barbed and twisted	48,937	0.1	—	—	—	—	48,937	0.1
Woven wire fence	12,608	—	—	—	—	—	12,608	—
Bale ties and baling wire	25,162	—	—	—	—	—	25,162	—
Total Wire and Wire Products	**1,055,115**	**1.5**	**22,975**	**0.3**	**26,734**	**1.9**	**1,104,824**	**1.4**
Black plate	204,586	0.3	—	—	—	—	204,586	0.3
Tin plate	2,765,246	4.1	—	—	—	—	2,765,246	3.6
Tin free Steel	938,513	1.4	—	—	—	—	938,513	1.2
Tin mill products--All other	79,331	0.1	—	—	—	—	79,331	0.1
Total Tin Mill Products	**3,987,676**	**5.9**	**—**	**—**	**—**	**—**	**3,987,676**	**5.2**
Sheets:								
Hot rolled	11,701,362	17.2	1,314,007	18.5	32,793	2.3	13,048,162	17.0
Cold rolled	12,900,390	18.9	255,649	3.6	703,458	49.6	13,859,497	18.1
Sheets and strip.								
Galvanized:								
Hot dipped	7,264,567	10.7	395,313	5.6	—	—	7,659,880	10.0
Electrolytic	1,431,768	2.1	—	—	—	—	1,431,768	1.9
All other metallic coated	1,153,672	1.7	74,315	1.0	—	—	1,227,987	1.6
Electrical	25,588	—	439,029	6.2	—	—	464,617	0.6
Strip:								
Hot rolled	565,338	0.8	84,550	1.2	7,524	0.5	657,412	0.9
Cold rolled	690,456	1.0	41,971	0.6	196,868	13.9	929,295	1.2
Total Sheets and Strip	**35,733,141**	**52.5**	**2,604,834**	**36.6**	**940,643**	**66.3**	**39,278,618**	**51.2**
Total Net Shipments	**68,115,772**	**100.0**	**7,119,572**	**100.0**	**1,418,497**	**100.0**	**76,653,841**	**100.0**
Shipments to reporting companies	3,631,740	—	155,842	—	204,879	—	3,992,461	—
Total Gross Shipments	**71,747,512**	**—**	**7,275,414**	**—**	**1,623,376**	**—**	**80,646,302**	**—**

Table 11

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1987		1986		1985		1984		1983	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingots and steel castings	381	0.5	244	0.3	256	0.4	275	0.4	238	0.4
Blooms, slabs and billets	1,212	1.6	1,242	1.8	1,118	1.5	1,031	1.4	760	1.1
Skelp	22	...	5	...	9	...	11	...	5	...
Wire rods	3,840	5.0	3,464	4.9	2,962	4.0	3,090	4.2	2,857	4.2
Structural shapes (3" & over)	4,839	6.3	4,233	6.0	4,373	6.0	3,868	5.2	3,364	5.0
Steel piling	280	0.4	295	0.4	326	0.5	288	0.4	258	0.4
Plates	4,048	5.3	3,565	5.1	4,327	5.9	4,339	5.9	3,816	5.6
Rails—Standard (over 60 lbs.)	351	0.5	444	0.6	679	0.9	933	1.3	611	0.9
—All other	15	...	17	...	25	...	32	...	23	...
Railroad accessories	62	0.1	101	0.1	121	0.2	182	0.3	177	0.3
Wheels (rolled and forged)	58	0.1	50	0.1	68	0.1	59	0.1	52	0.1
Axles	29	...	28	...	33	0.1	33	...	21	...
Bars—Hot rolled	6,048	7.9	5,648	8.0	5,698	7.8	6,070	8.2	5,129	7.6
—Bar-Size light shapes	1,190	1.6	911	1.3	1,329	1.8	1,184	1.6	1,070	1.6
—Reinforcing	4,918	6.4	4,299	6.1	4,326	5.9	4,432	6.0	4,275	6.3
—Cold finished	1,361	1.8	1,257	1.8	1,255	1.7	1,484	2.0	1,179	1.7
Tool steel	58	0.1	56	0.1	60	0.1	61	0.1	46	0.1
Pipe and tubing—Standard	969	1.3	710	1.0	855	1.1	743	1.0	812	1.2
—Oil country goods	919	1.2	483	0.7	1,299	1.8	1,406	1.9	678	1.0
—Line	620	0.8	604	0.9	775	1.1	775	1.0	623	0.9
—Mechanical	767	1.0	748	1.1	812	1.1	940	1.3	748	1.1
—Pressure	72	0.1	72	0.1	87	0.1	89	0.1	88	0.1
—Structural	180	0.2	177	0.3	219	0.3	270	0.4	238	0.4
—Stainless	42	0.1	42	0.1	49	0.1	52	0.1	57	0.1
Wire—Drawn	800	1.0	802	1.1	874	1.2	963	1.3	1,010	1.5
—Nails and staples	218	0.3	205	0.3	170	0.2	147	0.2	163	0.2
—Barbed and twisted	49	0.1	41	0.1	38	0.1	52	0.1	98	0.1
—Woven wire fence	13	...	11	...	20	...	26	...	49	0.1
—Bale ties and baling wire	25	...	21	...	34	0.1	35	0.1	39	0.1

Table 11 *(continued)*

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

	1987		1986		1985		1984		1983	
Steel Products	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**
Black plate	205	0.3	216	0.3	215	0.3	286	0.4	352	0.5
Tin plate	2,765	3.6	2,581	3.7	2,611	3.6	2,765	3.7	2,925	4.4
Tin free Steel	939	1.2	935	1.3	889	1.2	945	1.3	962	1.4
Tin mill products—All other	79	0.1	69	0.1	58	0.1	66	0.1	69	0.1
Sheets—Hot rolled	13,048	17.0	12,167	17.3	12,952	17.7	13,133	17.8	11,619	17.2
—Cold rolled	13,859	18.1	13,250	18.9	13,574	18.6	13,664	18.5	13,781	20.4
Sheets and strip—Galvanized—Hot dipped	7,660	10.0	7,224	10.3	6,850	9.4	6,100	8.3	5,793	8.6
—Electrolytic	1,432	1.9	898	1.3	697	0.9	659	0.9	641	0.9
—All other metallic coated	1,228	1.6	1,177	1.7	1,122	1.5	1,109	1.5	946	1.4
—Electrical	465	0.6	416	0.6	413	0.6	490	0.7	458	0.7
Strip—Hot rolled	657	0.9	635	0.9	586	0.8	650	0.9	633	0.9
—Cold rolled	929	1.2	920	1.3	876	1.2	1,002	1.3	920	1.4
Total Steel Mill Products	**76,654**	**100.0**	**70,263**	**100.0**	**73,043**	**100.0**	**73,739**	**100.0**	**67,583**	**100.0**
Carbon	68,116	88.9	62,520	89.0	64,360	88.1	65,009	88.2	60,292	89.2
Stainless and heat resisting	1,418	1.8	1,187	1.7	1,251	1.7	1,248	1.7	1,137	1.7
Alloy (other than stainless)	7,120	9.3	6,556	9.3	7,432	10.2	7,482	10.1	6,154	9.1
Total Steel Mill Product Shipment By Months*										
January	5,665		6,437		6,017		5,980		4,583	
February	5,527		5,799		5,598		6,150		4,588	
March	6,234		6,142		6,344		7,240		5,969	
April	6,312		6,283		6,425		6,472		5,399	
May	6,247		6,212		6,519		6,948		5,612	
June	6,656		6,007		6,125		6,686		5,986	
July	6,295		5,815		5,710		5,820		5,045	
August	6,364		5,364		6,064		6,033		5,789	
September	6,726		5,608		5,848		5,454		5,893	
October	7,077		5,923		6,308		6,087		6,078	
November	6,606		4,899		5,654		5,317		6,014	
December	6,977		5,199		5,821		4,867		6,269	
Total*	**76,654**		**70,263**		**73,043**		**73,739**		**67,583**	

*Totals include adjustments not shown in monthly figures.

Table 11 *(continued)*

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1982		1981		1980		1979		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingots and steel castings	246	0.4	461	0.5	445	0.6	504	0.5	516	0.5
Blooms, slabs and billets	1,035	1.7	2,185	2.5	2,185	2.6	2,095	2.1	1,969	2.0
Skelp	2	...	18	...	24	...	35	...	31	0.1
Wire rods	2,411	3.9	3,040	3.4	2,688	3.2	2,861	2.9	2,554	2.6
Structural shapes (3" & over)	3,313	5.4	4,929	5.6	4,861	5.8	5,303	5.3	4,667	4.7
Steel piling	250	0.4	282	0.3	346	0.4	293	0.3	360	0.4
Plates	4,146	6.7	7,441	8.4	8,080	9.6	9,035	9.0	8,601	8.8
Rails—Standard (over 60 lbs.)	498	0.8	907	1.0	1,085	1.3	1,122	1.1	946	1.0
—All other	19	...	48	0.1	53	0.1	48	0.1	38	...
Joint bars			10	...	17	...	19	...	14	...
Tie plates	157	0.3	213	0.3	205	0.2	337	0.3	255	0.2
Track spikes			81	0.1	85	0.1	101	0.1	97	0.1
Wheels (rolled and forged)	72	0.1	110	0.1	159	0.2	180	0.2	165	0.2
Axles	36	0.1	100	0.1	193	0.2	218	0.2	188	0.2
Bars—Hot rolled	4,757	7.7	6,890	7.8	5,961	7.1	8,493	8.5	8,758	9.0
—Bar-Size light shapes	948	1.5	1,473	1.7	950	1.1	1,466	1.5	1,277	1.3
—Reinforcing	4,049	6.6	4,612	5.2	4,684	5.6	5,303	5.3	4,704	4.8
—Cold finished	1,015	1.7	1,631	1.8	1,585	1.9	2,245	2.2	2,084	2.1
Tool steel	44	0.1	67	0.1	79	0.1	95	0.1	92	0.1
Pipe and tubing—Standard	962	1.5	1,858	2.1	1,773	2.1	1,952	1.9	2,054	2.1
—Oil country goods	1,759	2.9	4,241	4.8	3,612	4.3	2,458	2.5	2,647	2.7
—Line	1,093	1.8	2,047	2.3	1,793	2.1	1,569	1.6	1,571	1.6
—Mechanical	762	1.2	1,348	1.5	1,159	1.4	1,507	1.5	1,480	1.5
—Pressure	108	0.2	154	0.2	149	0.2	170	0.2	184	0.2
—Structural	301	0.5	598	0.7	569	0.7	541	0.5	423	0.4
—Stainless	41	0.1	39	...	41	0.1	46	...	40	0.1
Wire—Drawn	1,003	1.6	1,440	1.6	1,392	1.7	1,918	1.9	1,968	2.0
—Nails and staples	123	0.2	150	0.2	173	0.2	257	0.2	289	0.3
—Barbed and twisted	65	0.1	81	0.1	70	0.1	67	0.1	58	0.1
—Woven wire fence	74	0.1	95	0.1	92	0.1	122	0.1	109	0.1
—Bale ties and baling wire	43	0.1	49	0.1	41		85	0.1	87	0.1

Table 11 *(continued)*

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1982		1981		1980		1979		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Black plate	319	0.5	421	0.5	504	0.6	629	0.6	623	0.6
Tin plate	3,018	4.9	3,490	3.9	4,166	5.0	4,604	4.6	4,489	4.6
Tin free Steel	918	1.5	948	1.1	978	1.1	1,003	1.0	918	0.9
Tin mill products—All other	66	0.1	68	0.1	61	0.1	75	0.1	70	0.1
Sheets—Hot rolled	9,052	14.7	13,451	15.2	12,116	14.5	15,995	16.0	15,447	15.8
—Cold rolled	11,132	18.1	14,396	16.3	13,313	15.9	17,284	17.2	17,821	18.2
Sheets and strip—Galvanized—Hot dipped	4,878	7.9	5,375	6.1	4,787	5.7	5,810	5.8	5,889	6.0
—Electrolytic	491	0.8	548	0.6	457	0.5	531	0.5	541	0.6
—All other metallic coated	694	1.1	836	0.9	722	0.9	975	1.0	997	1.0
—Electrical	445	0.7	599	0.7	601	0.7	697	0.7	639	0.6
Strip—Hot rolled	498	0.8	660	0.7	669	0.8	984	1.0	1,027	1.0
—Cold rolled	724	1.2	1,060	1.2	930	1.1	1,230	1.2	1,248	1.3
Total Steel Mill Products	**61,567**	**100.0**	**88,450**	**100.0**	**83,853**	**100.0**	**100,262**	**100.0**	**97,935**	**100.0**
Carbon	53,947	87.6	76,554	86.6	73,358	87.5	87,879	87.6	86,187	88.0
Stainless and heat resisting	894	1.5	1,163	1.3	1,127	1.3	1,361	1.4	1,191	1.2
Alloy (other than stainless)	6,726	10.9	10,732	12.1	9,368	11.2	11,022	11.0	10,557	10.8
Total Steel Mill Product Shipment By Months*										
January	5,608		7,616		7,952		8,206		7,323	
February	5,434		7,375		7,690		7,996		7,539	
March	6,163		8,422		8,711		10,293		8,718	
April	5,488		8,108		7,296		7,438		8,055	
May	5,149		7,932		6,440		10,187		8,610	
June	5,372		8,148		5,848		8,977		8,787	
July	4,514		7,115		5,353		8,319		7,608	
August	4,724		7,020		5,745		8,475		8,293	
September	4,760		7,039		6,682		7,929		8,252	
October	4,309		6,723		7,458		8,355		8,599	
November	4,088		5,783		7,038		7,361		7,813	
December	4,234		5,666		7,591		6,743		8,196	
Total*	**61,567**		**88,450**		**83,853**		**100,262**		**97,935**	

*Totals include adjustments not shown in monthly figures.

Table 12

Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1987		1986		1985		1984		1983	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	7,195	9.4	5,635	8.0	5,484	7.5	5,136	7.0	4,403	6.5
Independent forgers (not elsewhere classified)	668	0.9	538	0.8	708	1.0	775	1.1	573	0.8
Industrial fasteners	396	0.5	427	0.6	386	0.5	455	0.6	440	0.7
Steel service centers & distributors	19,840	25.9	17,478	24.9	18,439	25.2	18,364	24.9	16,710	24.7
Construction, including maintenance	7,681	10.0	7,336	10.4	7,900	10.8	7,522	10.2	7,271	10.8
Contractors' products	3,337	4.4	3,278	4.7	3,330	4.6	2,631	3.6	2,703	4.0
Total	**11,018**	**14.4**	**10,614**	**15.1**	**11,230**	**15.4**	**10,153**	**13.8**	**9,974**	**14.8**
Automotive:										
Vehicles, parts, etc.	11,121	14.5	11,627	16.5	12,689	17.3	12,571	17.1	12,052	17.8
Independent forgers	222	0.3	262	0.4	261	0.4	311	0.4	268	0.4
Total	**11,343**	**14.8**	**11,889**	**16.9**	**12,950**	**17.7**	**12,882**	**17.5**	**12,320**	**18.2**
Rail transportation:										
Freight cars, pass. cars & locomotives	351	0.5	267	0.4	280	0.4	347	0.4	217	0.3
Rails and all other	407	0.5	531	0.7	781	1.0	1,091	1.5	720	1.1
Total	**758**	**1.0**	**798**	**1.1**	**1,061**	**1.4**	**1,438**	**1.9**	**937**	**1.4**
Shipbuilding and marine equipment	202	0.3	211	0.3	337	0.5	471	0.6	471	0.7
Aircraft and aerospace	36	...	39	...	39	...	37	0.1	21	...
Oil and gas industry	1,489	1.9	1,023	1.5	2,044	2.8	2,003	2.7	1,296	1.9
Mining, quarrying and lumbering	402	0.5	275	0.4	298	0.4	298	0.4	262	0.4
Agricultural:										
Agricultural machinery	394	0.5	373	0.6	442	0.7	480	0.6	417	0.6
All other	196	0.3	228	0.3	187	0.2	193	0.3	282	0.4
Total	**590**	**0.8**	**601**	**0.9**	**629**	**0.9**	**673**	**0.9**	**699**	**1.0**
Machinery, industrial equipment & tools	2,277	3.0	2,076	3.0	2,271	3.1	2,886	3.9	2,484	3.7
Electrical equipment	2,373	3.1	2,113	3.0	1,869	2.6	2,365	3.2	2,337	3.5
Appliances, utensils and cutlery	1,633	2.1	1,648	2.3	1,466	2.0	1,635	2.2	1,618	2.4
Other domestic and commercial equipment	1,149	1.5	1,173	1.7	1,215	1.7	1,339	1.8	1,363	2.0
Containers, packaging and shipping materials:										
Cans and closures	3,233	4.2	3,020	4.3	3,044	4.2	3,268	4.4	3,443	5.1
Barrels, drums and shipping pails	618	0.8	519	0.7	465	0.6	507	0.7	535	0.8
All other	521	0.7	574	0.9	580	0.8	577	0.8	554	0.8
Total	**4,372**	**5.7**	**4,113**	**5.9**	**4,089**	**5.6**	**4,352**	**5.9**	**4,532**	**6.7**
Ordnance and other military	199	0.3	228	0.3	267	0.4	242	0.3	244	0.4
Export (reporting companies only)	515	0.7	495	0.7	494	0.7	428	0.6	544	0.8
Nonclassified shipments	10,199	13.2	8,885	12.6	7,767	10.6	7,807	10.6	6,355	9.4
Total Shipments	**76,654**	**100.0**	**70,263**	**100.0**	**73,043**	**100.0**	**73,739**	**100.0**	**67,583**	**100.0**

Table 12 *(continued)*

Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1982		1981		1980		1979		1978	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	3,222	5.2	5,058	5.7	4,117	4.9	5,058	5.0	4,612	4.7
Independent forgers (not elsewhere classified)	579	0.9	1,035	1.2	933	1.1	1,254	1.3	1,192	1.2
Industrial fasteners	404	0.7	648	0.7	590	0.7	934	0.9	870	0.9
Steel service centers & distributors	13,067	21.2	17,637	19.9	16,172	19.3	18,246	18.2	17,333	17.7
Construction, including maintenance	6,283	10.2	8,446	9.5	8,742	10.4	9,978	10.0	9,612	9.8
Contractors' products	2,287	3.7	3,230	3.7	3,148	3.8	3,745	3.7	3,480	3.6
Subtotal construction and contractors' products	**8,570**	**13.9**	**11,676**	**13.2**	**11,890**	**14.2**	**13,723**	**13.7**	**13,092**	**13.4**
Automotive:										
Vehicles, parts, etc.	9,111	14.8	12,808	14.5	11,855	14.2	18,099	18.0	20,651	21.1
Independent forgers	177	0.3	346	0.4	269	0.3	522	0.5	602	0.6
Total	**9,288**	**15.1**	**13,154**	**14.9**	**12,124**	**14.5**	**18,621**	**18.5**	**21,253**	**21.7**
Rail transportation:										
Freight cars, pass. cars & locomotives	382	0.6	976	1.1	1,884	2.3	2,445	2.4	2,188	2.2
Rails and all other	638	1.1	1,186	1.3	1,271	1.5	1,666	1.7	1,361	1.4
Total	**1,020**	**1.7**	**2,162**	**2.5**	**3,155**	**3.8**	**4,111**	**4.1**	**3,549**	**3.6**
Shipbuilding and marine equipment	399	0.6	1,101	1.2	1,201	1.4	924	0.9	845	0.9
Aircraft and aerospace	30	-	37	-	53	0.1	60	0.1	60	0.1
Oil and gas industry	2,745	4.5	6,238	7.1	5,371	6.4	3,739	3.7	4,140	4.3
Mining, quarrying and lumbering	254	0.4	493	0.6	454	0.5	569	0.6	508	0.5
Agricultural:										
Agricultural machinery	425	0.7	820	0.9	852	1.0	1,306	1.3	1,080	1.1
All other	519	0.8	409	0.5	388	0.5	665	0.7	725	0.7
Total	**944**	**1.5**	**1,229**	**1.4**	**1,240**	**1.5**	**1,971**	**2.0**	**1,805**	**1.8**
Machinery, industrial equipment & tools	2,584	4.2	4,624	5.2	4,543	5.4	5,996	6.0	5,992	6.1
Electrical equipment	2,003	3.3	2,600	2.9	2,441	2.9	2,819	2.8	2,811	2.9
Appliances, utensils and cutlery	1,337	2.2	1,775	2.0	1,725	2.1	2,140	2.1	2,094	2.1
Other domestic and commercial equipment	1,247	2.0	1,622	1.8	1,701	2.0	2,073	2.1	1,889	1.9
Containers, packaging and shipping materials:										
Cans and closures	3,480	5.7	3,786	4.3	4,163	5.0	4,994	4.9	4,950	4.9
Barrels, drums and shipping pails	536	0.9	744	0.8	725	0.9	939	1.0	809	0.9
All other	454	0.7	762	0.9	663	0.7	839	0.9	836	0.9
Total	**4,470**	**7.3**	**5,292**	**6.0**	**5,551**	**6.6**	**6,772**	**6.8**	**6,595**	**6.7**
Ordnance and other military	203	0.3	166	0.2	177	0.2	204	0.2	207	0.2
Export (reporting companies only)	832	1.4	1,845	2.1	2,595	3.1	2,007	2.0	1,224	1.3
Nonclassified shipments	8,369	13.6	10,058	11.4	7,820	9.3	9,041	9.0	7,864	8.0
Total Shipments	**61,567**	**100.9**	**88,450**	**100.0**	**83,853**	**100.0**	**100,262**	**100.0**	**97,935**	**100.0**

Table 13

Shipments of Steel Mill Products by Market Classification—1987
All Grades

(Net Tons)

Products	Steel for Converting and Processing			Independent Forgers (Not elsewhere classified)	Industrial Fasteners	Steel Service Centers and Distributors	Construction Including Maintenance	Contractors' Products
	Total Shipments	Less Shipments to Reporting Companies	Net Shipments					
Ingots, blooms, billets, slabs	2,074,889	1,752,538	322,351	227,819	21	155,843	143,326	19,472
Skelp	8,199	8,199	...	...	...	...	...	...
Wire rods	1,687,451	42,776	1,644,675	9	105,124	334,919	544,229	25,043
Structural shapes (3" & over)	79,822	...	79,822	...	...	1,099,504	1,949,186	9,033
Steel piling	...	...	...	...	...	52,275	224,215	...
Plates	110,312	7,130	103,182	181	6,069	1,380,005	604,662	31,628
Rails	...	...	...	...	...	13,123	6,025	...
Rail Accessories	...	...	...	...	...	10,993	285	...
Wheels (rolled and forged)	...	...	...	...	...	...	...	...
Axles	...	...	...	...	...	...	...	...
Bars—Hot rolled (including light shapes)	1,127,906	585,925	541,981	437,879	124,883	1,197,950	571,085	252,039
—Reinforcing	790,941	...	790,941	172	2,112	255,255	1,895,013	363,274
—Cold finished	13,309	405	12,904	1,713	6,495	348,189	1,339	5,852
Tool steel	1,745	1,745	...	...	...	...	...	...
Pipe and tubing—Standard	19,074	18,932	142	...	...	655,936	24,335	40,909
—Oil country goods	24,103	22,584	1,519	...	...	173,586	...	...
—Line	694	122	572	...	...	140,624	1,724	26
—Mechanical	12,855	265	12,590	21	183	178,281	8,081	4,055
—Pressure	2,412	...	2,412	...	...	21,419	210	160
—Structural	809	...	809	...	...	61,781	64,746	875
—Stainless	1,984	306	1,678	...	...	16,927	1,059	88
Wire—Drawn	108,747	289	108,458	...	26,378	137,076	26,760	24,451
—Nails and staples	3,278	...	3,278	...	...	76,078	26,369	83
—Other merchant wire products	...	...	...	...	...	21,364	402	6
Black plate	14,641	...	14,641	...	...	44,270	12,964	29,448
Tin plate	34,108	...	34,108	...	...	265,968	115	570
Tin free steel	3,910	...	3,910	...	...	33,746	24	229
Tin mill products-All other	187	...	187	...	...	24,397	24	236
Sheets—Hot rolled	3,786,588	1,408,914	2,377,674	...	10,968	5,720,235	445,238	302,232
—Cold rolled	1,012,308	49,067	963,241	9	3,431	4,539,175	74,045	765,149
Sheets and strip—Galvanized	107,297	2,929	104,368	...	73,930	2,446,939	670,479	1,318,905
—All other metallic coated	8,966	...	8,966	...	...	244,220	334,407	100,979
—Electrical	2,659	1,218	1,441	...	...	31,890	...	2,627
Strip—Hot rolled	99,001	83,577	15,424	58	29,847	45,634	47,519	6,816
—Cold rolled	49,614	5,540	44,074	1	6,865	118,622	3,100	32,887
Total—All Grades	**11,187,809**	**3,992,461**	**7,195,348**	**667,862**	**396,306**	**19,840,224**	**7,680,966**	**3,337,072**
%	...	...	9.4	0.9	0.5	25.9	10.0	4.4

Table 13 *(continued)*

Shipments of Steel Mill Products by Market Classification—1987

All Grades

(Net tons)

Products	Automotive	Rail Transportation	Shipbuilding and Marine Equipment	Aircraft and Aerospace	Oil and Gas Industry	Mining, Quarrying and Lumbering	Agricultural	Machinery, Industrial Equipment and Tools
Ingots, blooms, billets, slabs	52,497	431	1,447	21,315	24,341	16	587	130,770
Skelp	...	...	...	...	...	...	...	...
Wire rods	117,502	2,064	3,000	261	6,052	...	49,390	226,609
Structural shapes (3" & over)	8,647	17,884	18,841	331	2,942	194	11,080	24,478
Steel piling	...	1,355	10	...	...	170	...	...
Plates	61,001	188,955	157,978	1,625	34,185	8,895	29,400	440,703
Rails	...	319,856	...	...	...	131	...	...
Rail Accessories	...	21,052	...	...	...	...	...	...
Wheels (rolled and forged)	...	57,276	...	...	...	...	...	...
Axles	...	28,605	...	...	...	134	...	...
Bars—Hot rolled (including light shapes)	1,078,996	59,732	4,324	4,142	95,249	234,837	120,641	403,413
—Reinforcing	...	8,044	...	...	5,650	110,629	853	7,216
—Cold finished	106,735	807	931	1,613	4,435	2,901	16,635	137,885
Tool steel	...	...	...	...	...	...	...	...
Pipe and tubing—Standard	29	508	1,004	...	126,394	115	577	11,246
—Oil country goods	...	...	...	...	675,156	...	...	...
—Line	...	...	253	...	460,043	...	23	201
—Mechanical	130,360	574	38	1,326	8,373	1,648	18,993	219,965
—Pressure	3	...	67	...	596	...	...	17,263
—Structural	...	...	...	...	6,746	...	74	4
—Stainless	51	...	12	291	285	...	...	3,236
Wire—Drawn	22,101	353	1,077	36	6,058	9,095	4,140	54,721
—Nails and staples	...	...	...	...	...	...	...	69
—Other merchant wire products	...	32	...	...	...	...	147	1
Black plate	2,397	...	...	...	...	...	...	1,419
Tin plate	51,744	...	...	...	...	...	291	6,657
Tin free steel	1,081	...	...	...	...	...	...	...
Tin mill products-All other	42,108	...	...	...	...	...	...	280
Sheets—Hot rolled	2,136,436	45,937	9,441	166	29,067	25,184	114,985	169,700
—Cold rolled	3,144,976	1,339	2,351	266	1,847	4,700	26,438	183,230
Sheets and strip—Galvanized	3,504,388	1,279	1,019	107	37	...	141,647	41,156
—All other metallic coated	417,001	...	...	...	79	...	4,110	7,963
—Electrical	786	962	...	...	...	...	4	20,817
Strip—Hot rolled	308,845	722	22	2,470	1,407	3,421	48,348	107,876
—Cold rolled	155,342	304	171	1,706	49	8	2,106	59,863
Total—All Grades	**11,343,026**	**758,071**	**201,986**	**35,655**	**1,488,991**	**402,078**	**590,469**	**2,276,741**
%	14.8	1.0	0.3	...	1.9	0.5	0.8	3.0

Table 13 *(continued)*

Shipments of Steel Mill Products by Market Classification—1987

All Grades

(Net tons)

Products	Electrical Equipment	Appliances, Utensils, and Cutlery	Other Domestic and Commercial Equipment	Containers, Packaging and Shipping Materials	Ordnance and Other Military	Export (Reporting Companies Only)	Non-classified Shipments	Total	%
Ingots, blooms, billets, slabs	296	7	920	11,293	72,715	36,480	371,269	1,593,216	2.1
Skelp	...	...	...	...	...	...	21,972	21,972	...
Wire rods	22,499	4,914	139,115	340	...	303	614,446	3,840,494	5.0
Structural shapes (3" & over)	890	15	513	41	...	12,911	1,603,097	4,839,409	6.3
Steel piling	...	...	...	...	...	2,280	...	280,305	0.4
Plates	33,710	5,677	15,742	6,326	65,928	35,136	836,931	4,047,919	5.3
Rails	...	...	...	...	...	5,189	21,176	365,500	0.5
Rail Accessories	...	...	...	...	...	308	29,386	62,024	...
Wheels (rolled and forged)	...	...	...	...	...	415	...	57,691	0.1
Axles	...	...	...	...	...	693	...	29,432	0.1
Bars—Hot rolled (including light shapes)	27,721	6,576	42,653	2,253	13,305	61,225	1,957,081	7,237,965	9.5
—Reinforcing	...	...	...	...	...	6,582	1,471,888	4,917,629	6.4
—Cold finished	6,097	9,726	7,561	...	6,768	3,325	679,174	1,361,085	1.8
Tool steel	...	...	...	...	...	1,521	56,914	58,435	0.1
Pipe and tubing—Standard	75,803	...	3,952	...	1,299	9,041	18,041	969,331	1.3
—Oil country goods	194	...	...	...	...	3,625	65,343	919,423	1.2
—Line	94	...	80	...	...	175	16,589	620,404	0.8
—Mechanical	3,659	8,122	19,593	64	6,483	10,092	134,486	766,987	1.0
—Pressure	255	...	...	...	1,748	4,205	23,186	71,524	0.1
—Structural	31,779	...	3,383	...	...	...	10,001	180,198	0.2
—Stainless	535	...	14	...	13	473	23,118	41,780	0.1
Wire—Drawn	7,010	17,123	73,010	10,705	1,332	1,146	269,033	800,063	1.0
—Nails and staples	...	...	...	...	...	...	112,177	218,054	0.3
—Other merchant wire products	...	...	...	...	...	1	64,754	86,707	0.1
Black plate	1,969	2,499	16,487	67,994	...	10,498	...	204,586	0.3
Tin plate	2,320	7,669	11,995	2,312,908	46	70,855	...	2,765,246	3.6
Tin free steel	6,972	150	3,827	861,331	(48)	27,291	...	938,513	1.2
Tin mill products—all other	815	1,480	584	9,132	...	88	...	79,331	0.1
Sheets—Hot rolled	401,727	60,776	110,940	222,342	1,919	51,187	812,008	13,048,162	17.0
—Cold rolled	1,256,310	1,202,456	561,941	673,429	15,216	27,418	412,530	13,859,497	18.1
Sheets and strip—Galvanized	110,588	211,691	88,631	25,767	209	46,023	304,485	9,091,648	11.9
—All other metallic coated	512	33,431	11,032	2,040	31	38,086	25,130	1,227,987	1.6
—Electrical	353,549	22,206	2,165	...	...	27,685	485	464,617	0.6
Strip—Hot rolled	6,278	2,943	6,672	4,650	376	4,896	13,188	657,412	0.9
—Cold rolled	21,032	35,329	27,693	161,277	11,959	15,408	231,499	929,295	1.2
Total—All Grades	**2,372,614**	**1,632,790**	**1,148,503**	**4,371,892**	**199,299**	**514,561**	**10,199,387**	**76,653,841**	**100.0**
%	3.1	2.1	1.5	5.7	0.3	0.7	13.2	100.0	...

EXPORTS AND IMPORTS

The following tables, compiled from Department of Commerce report on Foreign Commerce and Navigation of the United States, give the tonnage of iron and steel products exported and imported during the period 1983–1987. Exports and imports of iron and steel products not stated by weight in the reports are necessarily omitted.

Table 14

Exports of Iron and Steel Products

(Net tons)

Products	1987	1986	1985	1984	1983
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	73,543	58,885	89,708	73,536	102,754
Wire rods	8,217	5,876	4,740	8,646	6,137
Structural shapes (3" & over)	63,159	31,697	41,633	29,048	47,019
Sheet piling	2,552	5,729	628	3,355	2,097
Plates	85,211	69,565	82,988	88,184	101,982
Rails—Standard	6,321	1,660	1,888	3,126	4,333
—Other	3,221	2,402	4,682	8,015	4,884
Rail joints and tie plates	2,447	5,385	4,367	4,084	9,297
Wheels and axles	3,766	3,685	2,493	3,853	1,557
Bars—Hot rolled	66,007	45,253	62,719	82,972	89,677
Bars shapes under 3"	11,563	6,995	7,139	11,231	21,796
Concrete reinforcing bars	20,550	14,197	7,409	9,889	34,524
Cold finished bars	20,687	12,636	19,735	27,177	20,487
Tool steel	3,061	2,144	2,094	2,326	3,568
Line Pipe	5,714	10,531	12,737	17,921	24,551
Standard pipe	20,686	14,375	22,614	23,229	50,068
Oil country goods	29,746	35,619	62,211	53,067	60,835
Tubing—Pressure	6,892	4,492	6,158	5,311	10,582
—Mechanical	35,523	25,461	38,599	45,177	41,485
—Structural	3,767	1,616	4,748	6,628	5,646
Stainless pipe & tubing	8,751	3,040	6,009	7,648	†
Other pipe and tubing	41,077	25,916	46,243	48,445	64,785
Wire—Drawn	26,146	26,081	18,758	19,441	18,739
—Barbed, Iron or Steel	1,695	2,636	834	1,366	1,601
—Nails and staples	7,905	5,862	5,445	7,161	6,919
Black plate	73,967	70,468	32,754	38,782	60,925
Tin plate	158,998	206,286	130,027	121,472	170,060
Tin free	3,663	2,699	1,123	1,766	††
Sheets—Hot rolled	103,962	75,906	56,696	51,581	42,543
—Cold rolled	29,458	28,094	32,758	38,734	39,990
Sheets & strip—Galv.	58,121	27,365	29,261	31,741	{ 96,712
—Coated	62,764	52,457	42,761	55,287	
—Electrical	18,116	10,122	14,132	12,922	10,674
Strip—Hot rolled	28,321	13,683	12,482	11,563	16,430
—Cold rolled	32,942	20,319	23,401	25,729	25,920
Total Steel Mill Products	**1,128,519**	**929,156**	**931,976**	**980,414**	**1,198,577**
Carbon	772,962	687,029	648,063	704,290	842,044
Alloy	271,739	193,723	228,288	235,235	307,097
Stainless	83,818	48,404	55,625	40,888	49,436

†Included in applicable products
††Included in galvanized and coated sheets and strip.

Table 14 *(continued)*

Exports of Iron and Steel Products

(Net tons)

Products	1987	1986	1985	1984	1983
Other Steel Products:					
Plates—Fabricated	2,296	3,088	5,633	3,573	5,621
Structural shapes—Fabricated	35,662	34,098	46,770	86,853	65,801
Sashes and frames	5,462	4,242	6,815	8,986	9,198
Rails-used	56,804	77,725	109,560	58,212	34,026
Railway track material	5,774	2,812	2,843	2,550	3,214
Bolts, nuts	55,608	44,186	58,944	86,897	72,906
Architectural & ornamental work, nec.	1,472	2,552	1,765	2,207	3,642
Wire cable, rope, strand & cordage	8,358	7,465	7,149	6,478	10,329
Fabricated wire products	9,916	11,347	10,119	7,100	10,093
Wire springs	23,189	11,069	16,135	17,246	14,564
Welded wire mesh	3,356	2,627	2,415	3,079	5,102
Sheets—Fabricated	8,412	8,046	8,044	7,798	16,370
Cast steel rolls	1,880	1,243	1,471	1,438	977
Forgings	78,202	46,649	46,269	41,739	33,048
Chains and parts	9,054	6,846	8,129	7,760	6,380
Pipe & tube fittings	30,820	21,528	28,956	36,182	47,796
Total Other Steel Products	**336,263**	**285,522**	**361,016**	**378,098**	**339,067**
Total Steel Products	**1,464,782**	**1,214,678**	**1,292,991**	**1,358,512**	**1,537,644**
Iron Products and Ferroalloys:					
Cast iron pressure pipe	20,171	16,603	8,600	12,611	18,447
Cast iron soil pipe	1,907	39,176	22,099	21,775	40,819
Cast iron fittings not malleable	4,913	5,853	6,808	10,857	18,042
Cast iron fittings malleable	4,585	3,168	3,500	4,273	4,562
Iron castings	67,197	40,473	94,419	122,374	58,345
Pig iron	50,072	47,051	31,614	56,674	6,364
Sponge iron, iron or steel powders	16,629	11,529	10,773	14,791	14,243
Ferroalloys	77,460	72,722	98,417	124,724	66,272
Total Iron Products & Ferroalloys	**242,935**	**236,576**	**276,231**	**368,081**	**227,094**
Grand Total	**1,707,717**	**1,451,254**	**1,569,222**	**1,726,592**	**1,764,738**
Iron and steel scrap	10,366,667	11,703,677	9,948,395	9,498,276	7,519,924

Table 15

Exports of Iron and Steel Products

(Net tons)

Products	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc	73,543	58,885	89,708	73,536	102,754	362,293	540,598	912,309	357,965	231,098
Wire rods	8,217	5,876	4,740	8,646	6,137	24,961	101,774	212,347	26,903	38,863
Structural shapes and pilings	65,711	37,426	42,261	32,403	49,116	62,018	138,988	153,754	145,884	127,275
Plates	85,211	69,565	82,988	88,184	101,982	121,930	199,534	207,840	207,860	172,068
Rails and accessories	15,755	13,132	13,430	19,078	20,071	39,192	85,712	134,529	40,646	76,590
Bars and tool steel	121,868	81,225	99,096	133,595	170,052	222,608	337,463	434,068	260,244	282,309
Pipe and tubing	152,156	121,050	199,319	207,426	257,952	430,626	472,436	470,150	728,415	561,998
Wire and wire products	35,746	34,579	25,037	27,968	27,259	33,353	49,302	54,239	45,142	62,411
Tin mill products	236,628	279,473	163,904	162,020	249,556	312,017	470,810	886,482	565,953	453,463
Sheets and strip	333,684	227,946	211,491	227,557	213,698	233,269	507,176	634,965	438,923	415,613
Total Steel Mill Products	**1,128,519**	**929,156**	**931,976**	**980,414**	**1,198,577**	**1,842,267**	**2,903,793**	**4,100,683**	**2,817,935**	**2,421,688**
Other Steel Products	336,263	285,522	361,016	378,098	339,067	453,689	568,486	561,545	503,699	512,619
Total Steel Products	**1,464,782**	**1,214,678**	**1,292,991**	**1,358,512**	**1,537,644**	**2,295,956**	**3,472,279**	**4,662,228**	**3,321,634**	**2,934,307**
Iron Products and Ferroalloys	242,935	236,576	276,231	368,081	227,094	292,029	302,446	445,110	440,684	564,977
Grand Total	**1,707,717**	**1,451,254**	**1,569,222**	**1,726,592**	**1,764,738**	**2,587,985**	**3,774,725**	**5,107,338**	**3,762,318**	**3,499,284**

Table 16

Exports of Steel Mill Products

(Net tons)

Months	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
January	65,326	86,828	65,997	86,253	94,513	173,403	255,736	197,768	192,619	160,338
February	87,135	72,764	73,275	73,074	92,122	153,543	212,903	295,675	164,693	207,583
March	83,619	73,830	76,528	79,994	88,940	197,296	260,094	276,266	216,844	191,463
April	94,357	72,371	71,252	72,687	105,754	147,572	291,048	321,393	226,446	204,708
May	114,511	61,209	84,930	90,031	100,931	194,314	259,418	337,821	236,756	255,466
June	98,864	70,194	83,233	85,895	100,182	180,094	279,433	417,941	255,187	270,996
July	84,093	67,643	81,333	89,790	108,250	145,546	217,564	398,417	233,706	174,335
August	91,445	85,591	100,855	94,076	100,123	152,434	194,438	448,915	249,507	208,456
September	98,604	102,950	63,385	76,358	99,000	158,258	228,080	400,518	244,488	174,305
October	86,113	71,825	77,090	88,558	109,868	133,356	233,084	366,179	281,453	217,741
November	114,246	87,180	73,202	61,026	114,210	105,988	244,423	315,875	226,700	194,487
December	110,208	76,770	80,894	82,645	84,459	97,370	227,490	323,827	289,312	248,453
Total*	**1,128,519**	**929,156**	**931,976**	**980,414**	**1,198,577**	**1,842,267**	**2,903,793**	**4,100,683**	**2,817,935**	**2,421,688**

*Totals include adjustments not shown in monthly figures.

Table 17

Exports of Iron and Steel Products by Countries of Destination—1987

(Net tons)

Products	Grand Total	Canada	LATIN AMERICA				
			Mexico	Venezuela	Brazil	Argentina	Total Latin Am.
Steel Mill Products							
Ingots, bloom, billets, slabs, etc	**73,543**	37,313	3,210	23	12,430	550	**22,144**
Wire rods	**8,217**	2,551	2,465	251	62	8	**3,254**
Structural shapes (3" and over)	**63,159**	56,302	2,927	505	61	41	**5,283**
Sheet piling	**2,552**	398	40	3	—	—	**1,040**
Plates	**85,211**	29,904	23,386	330	86	74	**29,362**
Rails—Standard	**6,321**	693	516	41	2,133	10	**5,506**
—Iron or steel (NEC)	**3,221**	330	937	300	21	41	**1,538**
Rail joints and tie plates	**2,447**	1,441	520	209	55	—	**924**
Wheels and axles	**3,766**	1,286	329	279	11	—	**1,010**
Bars—Hot rolled	**66,007**	41,961	13,510	367	8	76	**17,218**
Bar shapes under 3"	**11,563**	2,032	3,137	116	115	57	**4,599**
Concrete reinforcing bars	**20,550**	3,910	272	—	—	5	**7,430**
Cold finished bars	**20,667**	11,316	2,692	200	8	2	**5,909**
Tool steel	**3,061**	1,564	237	1	21	—	**598**
Standard pipe	**20,686**	5,231	1,017	154	63	7	**8,720**
Oil country goods	**29,746**	8,894	445	447	399	31	**6,355**
Line pipe	**5,714**	1,007	471	20	—	—	**2,943**
Mechanical tubing	**35,523**	21,348	5,594	—	8	15	**6,415**
Pressure tubing	**6,892**	4,932	1,285	34	11	31	**1,675**
Stainless pipe and tubing	**8,751**	1,649	692	305	7	4	**5,945**
Pipe and tubing nonclassified	**41,077**	11,956	4,733	180	95	244	**11,425**
Structural pipe and tubing	**3,767**	359	225	9	—	—	**548**
Wire drawn	**26,146**	10,334	5,677	498	305	158	**8,434**
Wire—Nails and staples	**7,905**	4,098	427	65	22	11	**1,312**
—Barbed, iron or steel	**1,695**	87	52	2	—	—	**659**
Black plate	**73,967**	1,897	43,010	20	5	641	**44,492**
Tin plate	**158,998**	1,816	2,217	96	—	1,185	**9,014**
Tin free steel	**3,663**	64	235	2	1	—	**246**
Sheets—Hot rolled	**103,962**	13,081	35,274	129	21	13	**37,796**
—Cold rolled	**29,458**	15,351	4,990	45	28	641	**6,651**
Sheets & strip galvanized	**58,121**	49,858	5,277	—	47	17	**6,721**
Coated sheets	**62,764**	37,670	2,888	—	22	470	**4,841**
Electrical sheets & strip	**18,116**	6,797	4,626	1,184	213	482	**6,597**
Strip—Hot rolled	**28,321**	3,835	20,733	897	8	34	**22,525**
—Cold rolled	**32,942**	23,232	3,451	1,346	93	14	**5,650**
Total Steel Mill Products	**1,128,519**	**414,499**	**197,496**	**8,058**	**16,361**	**4,862**	**304,780**
Carbon	**772,962**	274,358	114,623	3,967	3,185	2,682	**171,306**
Alloy	**271,739**	127,356	44,143	2,782	12,907	1,469	**85,491**
Stainless	**83,818**	12,785	38,731	1,308	269	712	**47,983**

Country detail may not add to regional total because of ommissions of some countries.

Table 17 *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1987

(Net tons)

Products	EUROPE									
	EUROPEAN ECONOMIC COMMUNITY									
	United Kingdom	Nether-lands	Belgium-Luxembourg	France	Fed. Rep. Germany	Italy	Spain	Total E.E.C.*	Sweden	Total Other Europe
Steel Mill Products										
Ingots, bloom, billets, slabs, etc	792	61	1	316	348	1,339	—	**3,338**	14	**174**
Wire rods	426	77	127	2	50	5	1	**694**	38	**203**
Structural shapes (3" and over)	111	2	—	10	28	36	1	**258**	—	**53**
Sheet piling	—	—	15	—	40	—	15	**70**	26	**26**
Plates	316	16	16	54	313	30	27	**798**	196	**415**
Rails—Standard	—	—	—	—	—	86	—	**86**	—	**—**
—Iron or steel (NEC)	92	—	1	—	3	495	2	**595**	—	**—**
Rail joints and tie plates	2	1	—	—	4	11	—	**19**	—	**—**
Wheels and axles	5	—	—	601	106	5	—	**749**	—	**65**
Bars—Hot rolled	226	101	46	474	203	37	6	**1,121**	1,503	**1,818**
Bar shapes under 3"	70	169	1	22	3,736	—	24	**4,024**	—	**22**
Concrete reinforcing bars	—	—	—	44	—	—	1	**45**	—	**317**
Cold finished bars	487	309	9	94	535	152	1	**1,611**	26	**819**
Tool steel	125	14	28	32	155	34	7	**396**	—	**34**
Standard pipe	121	3	27	—	24	144	33	**360**	—	**63**
Oil country goods	280	479	99	43	1,872	1,883	9	**4,729**	9	**663**
Line pipe	41	—	—	—	255	29	—	**457**	—	**15**
Mechanical tubing	144	1,105	22	81	42	3,859	—	**5,253**	21	**24**
Pressure tubing	10	15	1	2	18	8	—	**109**	—	**96**
Stainless pipe & tubing	176	19	45	9	16	49	6	**324**	16	**54**
Pipe and tubing nonclassified	424	151	61	35	167	4,470	500	**5,859**	7	**112**
Structural pipe and tubing	2	57	—	—	5	—	—	**64**	6	**20**
Wire drawn	422	122	433	173	590	148	249	**2,150**	46	**1,669**
Wire—Nails and staples	273	24	197	319	118	36	2	**1,013**	149	**203**
—Barbed, iron or steel	47	—	18	7	189	—	—	**483**	—	**6**
Black plate	60	—	18	4	70	1,276	22	**1,650**	63	**64**
Tin plate	109	307	1	—	27	28,092	2,537	**31,387**	73	**2,010**
Tin free steel	2,255	—	8	—	79	135	—	**2,482**	—	**—**
Sheets—Hot rolled	493	47	56	40	212	13,320	23,325	**39,668**	23	**154**
—Cold rolled	705	32	7	168	625	291	260	**2,092**	—	**12**
Sheets & strip galvanized	155	12	57	282	47	73	105	**754**	—	**5**
Coated sheets	364	301	111	87	1,709	2,065	3,351	**7,991**	175	**295**
Electrical sheets & strip	91	—	29	29	326	4	47	**531**	2	**9**
Strip—Hot rolled	416	1	—	14	39	54	14	**633**	11	**53**
—Cold rolled	363	7	1	56	495	627	12	**1,730**	191	**305**
Total Steel Mill Products	**9,602**	**3,434**	**1,435**	**3,002**	**12,447**	**58,802**	**30,555**	**123,730**	**2,596**	**9,779**
Carbon	5,649	1,576	854	1,985	6,436	44,587	30,107	**95,068**	1,974	**7,858**
Alloy	2,554	1,546	265	617	5,111	13,777	101	**24,528**	592	**1,507**
Stainless	1,399	309	317	400	900	437	347	**4,142**	31	**414**

*Includes totals for Ireland, Denmark, Greece, & Portugal.

Table 17 *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1987

(Net tons)

Products	ASIA					OCEANIA		AFRICA		
	Hong Kong	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Egypt	Republic of South Africa	Total Africa
Steel Mill Products										
Ingots, bloom, billets, slabs, etc	297	5,884	3,250	247	**10,452**	21	**24**	16	1	**98**
Wire rods	47	135	730	65	**1,304**	8	**8**	169	24	**202**
Structural shapes (3" and over)	67	132	66	77	**636**	36	**40**	184	12	**567**
Sheet piling	—	11	—	—	**12**	—	**—**	1,005	—	**1,005**
Plates	90	14,491	165	754	**21,636**	210	**625**	—	9	**2,270**
Rails—Standard	12	7	—	—	**18**	—	**17**	—	—	**5**
—Iron or steel (NEC)	4	3	23	13	**48**	—	**—**	703	—	**710**
Rail joints and tie plates	—	1	—	4	**7**	7	**7**	48	—	**49**
Wheels and axles	—	16	2	—	**166**	11	**11**	—	—	**480**
Bars—Hot rolled	72	38	547	196	**2,580**	169	**193**	222	7	**1,136**
Bar shapes under 3"	—	25	24	126	**405**	400	**400**	6	—	**52**
Concrete reinforcing bars	—	—	65	2	**71**	—	**61**	6,934	—	**6,696**
Cold finished bars	26	95	297	107	**798**	96	**102**	45	67	**132**
Tool steel	5	10	42	25	**171**	61	**60**	1	38	**38**
Standard pipe	—	70	165	27	**5,193**	10	**51**	25	423	**1,068**
Oil country goods	13	8	136	29	**5,340**	34	**511**	120	749	**3,254**
Line pipe	—	161	24	44	**703**	—	**13**	32	—	**576**
Mechanical tubing	1	14	12	15	**213**	2,216	**2,216**	—	51	**53**
Pressure tubing	—	11	1	8	**55**	20	**21**	—	1	**4**
Stainless pipe and tubing	1	196	79	75	**614**	34	**36**	—	6	**129**
Pipe and tubing nonclassified	54	224	224	279	**11,192**	61	**223**	251	42	**310**
Structural pipe and tubing	—	267	—	—	**2,743**	28	**28**	5	—	**7**
Wire drawn	818	75	865	348	**2,558**	113	**145**	283	8	**655**
Wire—Nails and staples	186	21	44	202	**837**	197	**254**	1	155	**186**
—Barbed, iron or steel	2	315	11	5	**416**	15	**39**	—	—	**4**
Black plate	1,788	23	4,927	4,282	**25,749**	—	**3**	—	—	**113**
Tin plate	29,807	1,372	13,121	2,424	**95,257**	—	**37**	19,274	61	**19,476**
Tin free steel	2	—	—	—	**871**	—	**1**	—	—	**—**
Sheets—Hot rolled	605	203	9,483	467	**12,109**	64	**70**	798	5	**965**
—Cold rolled	374	63	1,490	1,562	**5,287**	33	**35**	2	6	**31**
Sheets & strip galvanized	—	44	93	111	**708**	30	**30**	1	—	**46**
Coated sheets	3,083	98	2,993	281	**11,600**	99	**112**	26	57	**255**
Electrical sheets & strip	2	62	1,747	53	**3,422**	2	**2**	318	—	**759**
Strip—Hot rolled	13	53	146	489	**1,247**	16	**20**	—	6	**8**
—Cold rolled	265	30	448	204	**1,715**	116	**124**	45	48	**185**
Total Steel Mill Products	**37,648**	**24,109**	**41,222**	**12,510**	**220,513**	**4,166**	**5,539**	**30,456**	**1,777**	**43,671**
Carbon	35,511	22,304	23,140	8,254	**184,087**	1,043	**1,707**	28,516	1,605	**38,538**
Alloy	377	1,482	7,697	3,308	**25,732**	2,758	**3,395**	700	106	**3,738**
Stainless	1,761	324	10,385	954	**10,713**	365	**395**	1,191	66	**1,395**

Table 17A

Exports of Iron and Steel Products by Countries of Destination—1987

(Net tons)

Products	Grand Total	Canada	LATIN AMERICA				
			Mexico	Venezuela	Brazil	Argentina	Total Latin Am.
Other Steel Products							
Plates—Fabricated	2,296	1,149	234	23	38	1	789
Structural shapes—Fabricated	35,662	7,079	3,041	119	5	41	13,340
Sashes and frames	5,462	1,315	1,044	—	—	—	1,838
Rails—Used	56,804	851	45,477	20	—	—	46,235
Railway Track Material	5,774	291	1,634	85	379	2	3,119
Bolts, nuts	55,608	44,510	4,725	30	22	9	5,810
Architectural and ornamental work, NEC	1,472	197	53	119	227	—	711
Wire strand, rope, cables and cordage	8,358	2,907	868	20	82	16	2,408
Fabricated wire products	9,916	2,230	3,829	152	149	15	5,662
Wire springs	23,189	20,757	1,199	19	1	59	1,383
Welded wire mesh	3,356	741	200	13	3	—	1,075
Sheets—Fabricated	8,412	2,364	675	78	18	322	2,479
Cast steel rolls	1,880	1,217	181	384	—	15	594
Forgings	78,202	47,537	2,220	20	30	3	5,664
Chains and Parts	9,054	6,447	577	25	49	3	1,441
Pipe and tube fittings	30,820	15,928	2,235	567	15	43	7,015
Total Other Steel Products	**336,263**	**155,520**	**68,192**	**1,674**	**1,018**	**529**	**99,541**
Total Steel Products	**1,464,782**	**570,019**	**265,688**	**9,732**	**17,379**	**5,391**	**404,321**
Iron Products and Ferroalloys							
Cast iron pressure pipe	20,171	7,307	1,116	6	11	—	4,199
Cast iron soil pipe	1,907	435	140	—	—	—	554
Cast iron fittings not malleable	4,913	2,197	174	53	—	1	511
Cast iron fittings malleable	4,585	3,622	285	1	—		575
Iron castings	67,197	66,286	294	53	82	8	489
Pig iron	50,072	8,620	2,311	—	—	—	2,422
Sponge iron, iron or steel powders	16,629	6,883	2,293	560	1,585	918	5,444
Ferroalloys	77,460	18,781	8,103	497	123	400	9,305
Total Iron Products and Ferroalloys	**242,935**	**114,131**	**14,717**	**1,170**	**1,801**	**1,328**	**23,478**
Grand Total	**1,707,717**	**684,150**	**280,405**	**10,902**	**19,180**	**6,719**	**427,799**
Iron and steel scrap	10,366,667	331,072	500,974	150,219	8,722	621	926,705

Table 17A *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1987

(Net tons)

Products	EUROPE									
	EUROPEAN ECONOMIC COMMUNITY									
	United Kingdom	Nether-lands	Belgium-Luxembourg	France	Fed. Rep. Germany	Italy	Spain	Total E.E.C.*	Sweden	Total Other Europe
Other Steel Products										
Plates—Fabricated	18	—	—	—	6	—	—	24	—	6
Structural shapes—Fabricated	985	387	59	123	166	223	370	2,421	188	956
Sashes and frames	719	27	7	89	11	119	93	1,123	8	76
Rails—Used	—	—	—	—	—	—	—	—	—	9,639
Railway Track Material	1	1	2	—	5	—	—	8	5	5
Bolts, nuts	1,921	106	17	336	942	106	36	3,511	178	367
Architectural and ornamental work, NEC	24	100	4	22	1	2	49	203	—	3
Wire strand, rope, cables and cordage	112	31	3	60	151	34	15	465	63	215
Fabricated wire products	241	55	22	105	239	94	4	861	4	204
Wire springs	627	30	2	47	11	17	5	747	15	41
Welded wire mesh	269	5	—	1	78	40	4	429	—	2
Sheets—Fabricated	283	26	63	35	245	14	20	890	9	133
Cast steel rolls	—	2	—	7	43	—	—	52	7	7
Forgings	370	27	27	112	291	45	6	935	103	2,438
Chains and Parts	168	77	49	5	43	29	15	405	1	29
Pipe and tube fittings	739	104	21	463	417	165	47	2,122	16	675
Total Other Steel Products	**6,476**	**978**	**274**	**1,404**	**2,851**	**888**	**663**	**14,196**	**597**	**14,797**
Total Steel Products	**16,078**	**4,412**	**1,709**	**4,406**	**15,098**	**59,690**	**31,218**	**137,934**	**3,195**	**24,576**
Iron Products and Ferroalloys										
Cast iron pressure pipe	32	2	—	—	48	213	1,275	1,574	—	10
Cast iron soil pipe	—	—	—	1	—	—	—	8	—	15
Cast iron fittings not malleable	154	12	121	6	16	6	27	346	1	73
Cast iron fittings malleable	5	3	2	2	—	6	5	23	12	16
Iron castings	13	8	5	2	—	4	—	38	6	10
Pig iron	—	—	4,603	—	—	28,515	—	33,118	—	—
Sponge iron, iron or steel powders	1,133	391	270	171	132	223	8	2,343	341	371
Ferroalloys	1,522	857	7,736	148	4,577	129	447	15,416	66	266
Total Iron Products and Ferroalloys	**2,859**	**1,273**	**12,737**	**330**	**4,772**	**29,095**	**1,763**	**52,867**	**426**	**760**
Grand Total	**18,937**	**5,685**	**14,446**	**4,736**	**19,870**	**88,785**	**32,981**	**190,801**	**3,621**	**25,336**
Iron and steel scrap	55,063	21,518	19,005	293	51,682	175,473	417,309	763,083	32,704	2,290,350

*Includes totals for Denmark, Ireland, Greece & Portugal.

Table 17A *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1987

(Net tons)

Products	ASIA					OCEANIA		AFRICA		
	Hong Kong	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Egypt	Republic of South Africa	Total Africa
Other Steel Products										
Plates—Fabricated	14	169	25	37	317	—	—	6	—	11
Structural shapes—Fabricated	758	1,018	437	2,160	9,416	175	285	1,024	14	2,164
Sashes and frames	27	257	40	158	792	24	70	117	6	248
Rails—Used	—	20	—	40	60	19	19	—	—	—
Railway track material	—	—	17	12	122	19	19	2,205	—	2,210
Bolts, nuts	64	44	14	299	994	132	220	82	71	196
Architectural and ornamental work, NEC	16	67	8	7	291	8	8	—	21	59
Wire strand, rope, cables & cordage	14	64	206	50	2,060	36	56	13	2	247
Fabricated wire products	2	77	62	89	892	14	33	1	1	34
Wire springs	12	30	85	21	217	27	28	9	5	16
Welded wire mesh	13	230	3	26	588	31	37	378	—	484
Sheets—Fabricated	55	63	223	1,012	2,157	64	117	50	16	292
Cast steel rolls	3	—	—	—	7	3	3	—	—	—
Forgings	—	122	497	132	4,803	124	15,898	—	5	927
Chains and parts	12	173	43	106	557	112	120	1	39	54
Pipe and tube fittings	22	277	257	617	3,418	364	434	519	175	1,228
Total Other Steel Products	**1,013**	**2,612**	**1,919**	**4,766**	**26,691**	**1,151**	**17,348**	**4,405**	**355**	**8,171**
Total Steel Products	**38,661**	**26,721**	**43,141**	**17,282**	**253,204**	**5,317**	**22,887**	**34,863**	**2,132**	**51,842**
Iron Products and Ferroalloys										
Cast iron pressure pipe	2	14	8	767	7,008	3	22	31	—	59
Cast iron soil pipe	—	4	—	634	852	—	6	4	—	36
Cast iron fittings not malleable	29	125	35	113	1,543	79	133	43	19	110
Cast iron fittings malleable	—	17	1	98	309	3	36	5	—	6
Iron castings	—	1	6	11	214	147	147	—	13	33
Pig iron	—	4,977	556	—	5,613	299	299	—	—	—
Sponge iron, iron or steel powders	2	238	95	1,081	1,471	53	53	—	1	64
Ferroalloys	32	5,396	243	1,379	31,621	1,796	1,817	—	232	255
Total Iron Products and Ferroalloys	**65**	**10,772**	**944**	**4,083**	**48,623**	**2,381**	**2,512**	**81**	**265**	**563**
Grand Total	**38,726**	**37,493**	**44,085**	**21,365**	**301,827**	**7,698**	**25,399**	**34,944**	**2,397**	**52,405**
Iron and steel scrap	3,144	2,629,560	426,442	985,689	5,049,638	1,292	1,293	4,198	328	4,526

Table 18

Imports of Iron and Steel Products

(Net tons)

Products	1987	1986	1985	1984	1983
Steel Mill Products:					
Ingots, blooms, slabs, and billets, etc	2,282,654	2,084,096	2,440,368	1,515,837	822,483
Wire rods	1,467,030	1,357,875	1,479,176	1,589,788	1,185,291
Structural shapes (plain 3" & over)	1,778,314	1,748,604	1,978,711	2,046,630	1,444,721
Steel piling	109,705	107,013	139,807	108,995	113,554
Plates	1,096,424	1,106,904	1,377,921	1,538,495	1,103,199
Rails and track accessories	227,869	266,084	358,441	350,299	152,853
Wheels and axles	18,120	9,626	23,604	23,591	6,500
Concrete reinforcing bars	351,632	454,735	411,450	434,147	208,303
Bar shapes under 3"	140,469	166,369	140,318	174,788	88,288
Bars—Hot rolled	610,256	582,580	645,631	750,042	457,094
—Cold finished	213,466	224,696	314,865	328,419	191,605
Tool steel	40,599	44,749	37,142	32,054	30,423
Standard pipe	859,204	697,034	977,539	1,068,753	971,410
Oil country goods	570,440	616,743	1,497,972	2,206,595	564,769
Line pipe	550,071	817,861	1,042,356	982,669	494,424
Mechanical tubing	283,619	237,247	328,251	283,248	40,124
Pressure tubing	26,528	23,981	43,985	51,653	48,459
Stainless pipe & tubing	28,231	35,653	33,876	32,186	19,159
Structural pipe & tubing	428,758	479,768	502,112	320,691	186,621
Other pipe and tubing	23,332	28,524	37,577	475,918	537,095
Wire drawn	568,407	594,433	623,076	678,367	458,632
Bale ties & baling wire	1,719	696	885	2,986	448
Galvanized wire fencing	13,172	11,509	14,099	11,307	10,142
Wire nails	440,746	393,231	402,425	458,326	374,038
Barbed wire	16,643	22,157	15,336	27,729	28,927
Black plate	185,976	205,937	241,375	278,003	170,420
Tin plate	332,306	359,658	398,564	355,777	290,535
Tin free steel	101,172	110,569	145,606	104,001	62,170
Sheets—Hot rolled	2,515,178	2,395,926	2,785,583	3,033,150	2,316,786
—Cold rolled	2,244,958	2,692,824	2,701,645	3,594,729	2,417,195
—Galvanized	2,306,233	2,321,108	2,465,419	2,729,584	1,824,163
All other metalic coated	323,709	209,730	204,250	224,232	286,295
Electrical sheets & strip	69,824	81,703	118,834	89,324	46,595
Strip—Hot rolled	43,197	43,557	62,154	79,591	32,531
—Cold rolled	144,536	159,135	265,296	181,313	84,644
Total Steel Mill Products	**20,414,493**	**20,692,316**	**26,255,651**	**26,163,218**	**17,069,895**
Carbon	19,217,998	19,542,052	23,863,841	24,913,727	16,343,643
Alloy	902,082	855,078	1,120,731	986,938	535,928
Stainless	294,413	295,186	271,079	262,554	190,324

Table 18 *(continued)*

Imports of Iron and Steel Products

(Net tons)

Products	1987	1986	1985	1984	1983
Other Steel Products					
Structural shapes, fabricated	274,712	424,966	354,011	278,310	203,312
Shapes—Cold formed	1,107	2,178	1,951	1,770	1,552
Sashes and frames	7,996	4,394	3,085	2,785	1,432
Fence or sign posts	7,926	4,930	8,731	12,317	5,909
Wire—Nonmetalic coated	6,175	1,451	1,479	1,034	747
Wire rope	119,691	129,449	156,473	147,820	106,594
Wire strand	176,030	177,225	176,376	184,704	163,228
Welded wire fabric	54,796	51,699	40,276	23,167	17,755
Other nails and staples	48,298	45,437	41,553	44,554	38,117
Bale ties, made from strip	303	615	743	675	643
Bolts, nuts, and rivets	692,844	638,325	626,799	674,880	443,142
Grinding balls	4,655	4,134	3,559	10,804	4,990
Blanks, nonrectangular flat rolled	84,076	47,822	36,156	13,085	5,536
Conduit	9,543	22,871	21,258	3,915	3,169
Pipe and tube fittings	102,019	106,848	129,331	110,370	72,657
Total Other Steel Products	**1,590,170**	**1,662,344**	**1,601,783**	**1,510,189**	**1,068,782**
Total Steel Products	**22,004,663**	**22,354,660**	**25,857,434**	**27,673,407**	**18,138,677**
Iron Products and Ferroalloys					
Bar iron, iron slabs and blooms, etc	181	127	231	117	150
Cast iron soil pipe and fittings	5,568	5,297	4,164	1,729	439
Other cast iron pipe and fittings	18,171	16,634	38,663	14,887	9,541
Malleable cast iron pipe fittings	19,310	20,965	24,293	26,276	19,153
Castings and forgings	195,622	200,631	209,302	176,234	106,874
Pig iron	354,799	294,967	338,260	702,461	242,142
Sponge iron	61,992	97,585	103,534	175,328	135,321
Ferromanganese (manganese content)	367,651	388,093	361,884	320,790	266,327
Ferrosilicon (silicon content)	229,164	218,576	152,436	96,302	106,666
Ferrochromium (chromium content)	325,197	387,867	331,013	242,723	162,998
Other ferroalloys	254,049	252,399	211,327	117,820	113,096
Total Iron Products and Ferroalloys	**1,831,704**	**1,883,140**	**1,775,108**	**1,874,666**	**1,162,707**
Grand Total	**23,836,367**	**24,237,800**	**27,632,542**	**29,548,073**	**19,301,384**
Iron and Steel Scrap	842,976	723,562	611,358	577,251	640,770

Table 19

Imports of Iron and Steel Products

(Net tons)

Products	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc	2,282,654	2,084,096	2,440,368	1,515,837	822,483	716,588	790,062	155,343	344,693	413,899
Wire rods	1,467,030	1,357,875	1,479,176	1,589,788	1,185,291	941,390	888,442	829,259	985,414	1,326,580
Structural shapes and piling	1,888,019	1,855,617	2,118,518	2,155,625	1,558,275	1,598,340	2,075,508	1,828,966	1,984,782	1,926,967
Plates	1,096,424	1,106,904	1,377,921	1,538,495	1,103,199	1,619,527	2,447,688	2,059,713	1,819,812	2,924,989
Rails and accessories	245,989	275,710	382,045	373,890	159,353	340,272	318,569	414,076	313,223	285,885
Bars and tool steel	1,356,422	1,473,129	1,549,406	1,719,450	975,713	793,051	986,081	859,989	1,127,414	1,337,014
Pipe and tubing	2,770,183	2,936,811	4,463,668	5,421,713	2,862,061	5,249,948	6,568,556	3,776,535	2,920,019	3,045,910
Wire and wire products	1,040,687	1,022,026	1,055,821	1,178,715	872,187	625,303	723,975	714,874	827,257	1,074,781
Tin mill products	619,454	676,164	785,545	737,781	523,125	337,903	386,255	377,542	344,851	426,566
Sheets and strip	7,647,635	7,903,983	8,603,181	9,931,923	7,008,209	4,440,210	4,713,204	4,478,673	6,850,670	8,371,991
Total Steel Mill Products	**20,414,493**	**20,692,316**	**24,255,651**	**26,163,218**	**17,069,895**	**16,662,532**	**19,898,340**	**15,494,970**	**17,518,135**	**21,134,582**
Other Steel Products	1,590,170	1,662,344	1,601,783	1,510,189	1,068,782	1,025,177	1,080,715	1,016,709	1,149,511	1,129,578
Total Steel Products	**22,004,663**	**22,354,660**	**25,857,434**	**27,673,407**	**18,138,677**	**17,687,709**	**20,979,055**	**16,511,679**	**18,667,646**	**22,264,160**
Iron Products and Ferroalloys	1,831,704	1,883,140	1,775,108	1,874,666	1,162,707	1,082,293	1,650,325	1,366,341	1,658,908	1,804,126
Grand Total	**23,836,367**	**24,237,800**	**27,632,542**	**29,548,073**	**19,301,384**	**18,770,002**	**22,629,380**	**17,878,020**	**20,326,554**	**24,068,286**

Table 20

Imports of Steel Mill Products

(Net tons)

Months	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
January	1,499,757	1,748,205	2,661,496	2,081,905	1,097,621	1,968,663	1,281,332	1,265,093	1,264,346	1,537,793
February	1,851,641	2,042,595	2,047,766	2,160,912	1,156,903	1,600,300	1,234,087	1,666,905	1,329,115	2,219,592
March	1,807,351	1,963,629	2,028,519	2,225,055	1,113,127	1,355,969	1,141,878	1,119,981	1,095,893	1,988,233
April	1,522,164	1,597,645	1,908,639	2,215,824	1,182,177	1,029,288	1,760,883	1,249,874	1,071,955	2,174,892
May	1,898,451	1,625,683	1,954,680	1,997,669	1,352,954	1,695,850	1,772,326	1,614,653	1,654,757	1,511,255
June	1,696,595	1,732,361	2,360,744	1,775,968	1,296,840	1,783,632	1,665,347	1,202,689	1,365,619	1,359,820
July	1,722,931	2,059,421	1,577,020	2,655,913	1,410,816	1,113,031	1,663,042	1,079,040	1,514,423	1,784,814
August	1,623,670	1,529,357	2,028,485	2,515,952	1,617,273	1,450,515	2,226,364	1,374,121	1,783,935	1,870,390
September	1,600,123	1,586,335	2,539,131	2,181,795	1,521,966	1,190,779	1,747,583	1,063,755	1,640,695	1,584,169
October	1,650,893	1,359,103	1,302,521	1,985,702	1,755,164	1,145,847	1,871,511	1,141,939	1,603,188	1,715,239
November	1,812,419	1,926,933	1,699,656	2,208,978	1,835,197	1,258,423	1,921,117	1,179,301	1,651,951	2,016,345
December	1,728,500	1,521,047	2,146,995	2,157,543	1,729,858	1,090,494	1,612,870	1,533,920	1,542,258	1,372,040
Total*	**20,414,493**	**20,692,316**	**24,255,651**	**26,163,218**	**17,069,895**	**16,662,532**	**19,898,340**	**15,494,970**	**17,518,135**	**21,134,582**

*Revised totals include adjustments not shown in monthly figures.

Table 21

Imports of Steel Mill Products By Countries of Origin

(Net Tons)

	1987			1986			1985			1984			1983		
	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**	Net Tons	% Total	% U.S. Apparent Supply**
Canada	**3,670,139**	**18.0**	**3.8**	**3,203,059**	**15.6**	**2.0**	**2,868,279**	**11.8**	**3.0**	**3,167,300**	**12.1**	**3.2**	**2,379,617**	**13.9**	**2.8**
Mexico	487,361	2.4	0.5	431,394	2.1	0.5	271,794	1.1	0.3	796,812	3.0	0.8	651,009	3.8	0.8
Brazil	1,103,094	5.4	1.1	1,098,164	5.3	1.2	1,701,348	7.0	1.8	1,460,848	5.6	1.5	1,257,006	7.4	1.5
Argentina	330,906	1.6	0.3	170,259	0.8	0.2	191,094	0.8	0.2	300,174	1.1	0.3	282,253	1.7	0.3
Total Latin America	**2,161,825**	**10.7**	**2.3**	**1,952,677**	**9.6**	**2.2**	**2,624,705**	**10.8**	**2.7**	**3,132,081**	**12.0**	**3.2**	**2,414,527**	**14.2**	**2.9**
United Kingdom	745,241	3.7	0.8	702,957	3.4	0.8	611,546	2.5	0.6	476,229	1.8	0.5	363,750	2.1	0.4
Netherlands	491,461	2.4	0.5	498,080	2.4	0.6	577,872	2.4	0.6	446,355	1.7	0.5	370,681	2.2	0.4
Belgium-Luxembourg	762,364	3.7	0.8	985,372	4.8	1.1	1,061,421	4.4	1.1	921,036	3.5	0.9	615,008	3.6	0.7
France	1,088,406	5.3	1.1	1,205,506	5.8	1.3	1,596,266	6.5	1.7	1,126,512	4.3	1.1	913,743	5.4	1.1
West Germany	1,775,706	8.7	1.9	2,011,542	9.7	2.2	2,361,233	9.7	2.5	2,543,272	9.7	2.6	1,386,655	8.1	1.7
Italy	303,450	1.5	0.3	456,491	2.2	0.5	614,245	2.5	0.6	654,490	2.5	0.7	395,356	2.3	0.5
Total EEC*	**5,801,787**	**28.4**	**6.0**	**6,613,750**	**32.0**	**7.3**	**6,977,433**	**28.8**	**7.2**	**6,334,405**	**24.2**	**6.4**	**4,114,298**	**24.1**	**4.9**
Sweden	607,107	3.0	0.6	548,065	2.6	0.6	670,820	2.8	0.7	639,354	2.4	0.6	213,811	1.3	0.3
Finland	174,548	0.9	0.2	199,285	1.0	0.2	241,294	1.0	0.3	296,735	1.1	0.3	196,294	1.1	0.2
Poland	91,952	0.5	0.1	60,609	0.3	0.1	95,401	0.4	0.1	132,289	0.5	0.1	77,242	0.5	0.1
Spain	499,812	2.4	0.5	611,708	3.0	0.7	547,178	2.3	0.6	1,392,041	5.3	1.4	609,653	3.6	0.7
Romania	82,408	0.4	0.1	87,616	0.4	0.1	355,444	1.5	0.4	264,274	1.0	0.3	9,426	0.1	
Austria	119,232	0.6	0.1	132,096	0.6	0.1	306,550	1.3	0.3	326,120	1.2	0.3	35,418	0.2	
Turkey	407,413	2.0	0.4												
Total Europe	**7,626,415**	**37.3**	**8.0**	**8,051,676**	**38.9**	**8.9**	**9,765,363**	**40.3**	**10.2**	**9,862,745**	**38.1**	**10.1**	**5,309,764**	**31.1**	**6.4**
Japan	4,321,042	21.2	4.5	4,422,244	21.4	4.9	5,974,508	24.6	6.2	6,630,005	25.3	6.7	4,236,915	24.8	5.1
Korea Republic	1,295,890	6.3	1.4	1,525,305	7.4	1.7	1,899,043	7.8	2.0	2,234,331	8.5	2.3	1,727,573	10.1	2.1
China-Taiwan	252,556	1.2	0.3	475,835	2.3	0.5	217,725	0.9	0.2	160,118	0.6	0.2	177,161	1.0	0.2
Republic of So. Africa	24,596	0.1		499,590	2.4	0.6	411,062	1.7	0.4	556,545	2.1	0.6	556,896	3.3	0.7
Total Asia & Africa	**6,735,506**	**33.0**	**7.0**	**7,260,050**	**35.1**	**8.1**	**8,801,465**	**36.3**	**9.1**	**9,665,397**	**37.0**	**9.6**	**6,751,079**	**39.6**	**8.1**
Oceania	**200,417**	**1.0**	**0.2**	**206,423**	**1.0**	**0.2**	**195,819**	**0.8**	**0.2**	**215,663**	**0.8**	**0.2**	**205,906**	**1.2**	**0.2**
Total Imports of Steel Mill Products	**20,414,493**	**100.0**	**21.3**	**20,692,316**	**100.0**	**23.0**	**24,255,651**	**100.0**	**25.2**	**26,163,218**	**100.0**	**26.4**	**17,059,895**	**100.0**	**20.5**

*Includes total for Denmark, Ireland and Greece. 1986 and 1987 also includes Spain and Portugal.

**As developed in table 1A of this Report.

Country detail may not add to regional total because of omissions of some countries.

Table 22

Imports of Iron and Steel Products by Countries of Origin—1987

(Net tons)

Products	Grand Total	Canada	Latin America				
			Mexico	Vene-zuela	Brazil	Argen-tina	Total Latin America
Steel Mill Products							
Ingots, blooms, billets, slabs, etc	2,282,654	135,645	61,885	39,822	474,946	3,131	**579,783**
Wire rods	1,467,030	390,071	62,826	4,471	51,056	...	**162,237**
Structural shapes-plain 3" & over	1,778,314	253,678	16,227	...	10,439	17,626	**44,292**
Steel piling	109,705	26,414	...	...	...	...	**...**
Plates	1,096,424	303,032	12,232	21	49,271	318	**61,941**
Rails standard	167,884	70,881	...	...	...	...	**...**
Rails other	45,646	19,856	...	344	...	...	**344**
Joint bars and tie plates	13,969	610	...	...	...	...	**...**
Track spikes	370	316	...	...	...	...	**...**
Wheels and axles	18,120	9,776	46	...	2,440	6	**2,491**
Bars—hot rolled	610,256	286,360	12,047	...	24,642	17,338	**62,931**
Bars shapes under 3 inches	140,508	40,447	1,452	...	5,946	1,478	**8,876**
Concrete reinforcing bars	351,632	3,111	15,117	13,530	16,780	21	**54,193**
Bars—cold finished	213,427	50,979	2,904	...	4,156	228	**7,687**
Tool steel	40,599	6,868	139	...	997	70	**1,206**
Standard pipe	859,204	39,862	61,764	10,806	32,047	17,787	**127,439**
Oil country goods	570,440	114,010	38,989	737	13,107	24,672	**77,593**
Line pipe	550,071	100,150	26,602	21,923	938	32,897	**82,361**
Mechanical tubing	283,619	87,018	2,584	171	8,389	17,188	**30,368**
Pressure tubing	26,528	354	40	1,387	597	533	**2,556**
Stainless pipe & tubing	28,231	5,432	781	...	...	...	**781**
Pipe & tubing nonclassified	23,332	12,103	1,971	...	...	220	**2,191**
Structural pipe & rectangular	428,758	161,049	5,812	3,815	26,591	6,810	**38,117**
Wire drawn	568,407	202,180	3,991	7,717	10,985	1,170	**29,695**
Wire nails	440,746	85,376	3,006	2,481	1,557	...	**16,501**
Barbed wire	16,643	36	2,941	...	5,683	...	**10.732**
Galvanized wire fencing	13,172	3,545	7,130	...	58	...	**7,833**
Bale ties & bailing wire	1,719	305	84	11	32	...	**151**
Black plate	185,976	9,314	...	...	1,872	475	**2,346**
Tin plate	332,306	101,584	...	856	3,692	...	**4,548**
Tin free steel	101,172	11,337	...	...	...	...	**...**
Sheets—hot rolled	2,515,178	625,354	9,192	29,410	148,629	55,533	**242,786**
Sheets—cold rolled	2,244,958	178,025	27,593	16,804	173,801	83,256	**301,807**
Sheets—galvanized	2,306,233	253,023	104,913	11,934	26,369	49,044	**193,642**
All other metallic coated	323,709	2,398	1	4,140	1,778	403	**6,409**
Electric sheets & strip	69,824	11,630	...	...	...	...	**...**
Strip—hot rolled	43,197	20,899	2,417	...	472	702	**3,591**
Strip—cold rolled	144,536	47,108	2,676	...	11,823	...	**14,499**
Total steel mill products	**20,414,493**	**3,670,139**	**487,361**	**170,380**	**1,103,094**	**330,906**	**2,181,926**
Carbon	19,217,998	3,417,092	427,405	168,913	1,039,442	326,810	**2,052,290**
Alloy	902,082	214,176	40,353	1,467	53,534	3,986	**99,803**
Stainless	294,413	38,871	19,603	...	10,118	111	**29,833**

Country total may not add to regional total because of omissions of some countries.

Table 22 (continued)

Imports of Iron and Steel Products by Countries of Origin—1987

(Net tons)

Products	Europe												
	European Economic Community												
	United Kingdom	Nether-lands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Spain	Total E.E.C.*	Sweden	Finland	Austria	Turkey	Total Other Europe
Steel Mill Products														
Ingots, blooms, billets, slabs, etc	333,947	89,584	67,159	158,212	293,420	13,239		36,905	**952,578**	342,056	13,948			**402,573**
Wire rods	51,496	15,020	20,561	99,388	38,852	15,411		41,844	**282,572**	14,034	2,237	401	61,072	**103,720**
Structural shapes-plain 3" & over	130,183	773	248,847	62,016	110,641	653		177,182	**730,296**	460		127		**80,447**
Steel piling	5,742		30,410	22,295	23,442				**81,888**					...
Plates	30,749	26,330	102,807	15,327	64,721	20,344	90	36,773	**301,342**	100,598	55,799	2,444	2,678	**273,152**
Rails standard	5,662		10,992	2,569	10,333				**29,555**	3,583				**3,585**
Rails other			7,012	292	4,085				**11,389**	3,833		3		**3,837**
Joint bars and tie plates	60		203		121				**384**					...
Track spikes									...					...
Wheels and axles	4	1		753	215	37	3		**1,012**	8		2		**12**
Bars—hot rolled	81,027	1,794	11,635	13,875	21,526	356	261	14,771	**145,246**	7,797	6	336	160	**9,329**
Bars shapes under 3 inches	2,756	2	10,219	638	4,387	1,383		2,470	**21,875**	1,611		23		**2,232**
Concrete reinforcing bars	245			89	128	208			**670**	1			94,722	**123,070**
Bars—cold finished	22,221	31	654	35,410	3,123	2,432		17,167	**81,037**	615	2,745	129		**4,541**
Tool steel	568		84	687	7,671	1,260		47	**10,349**	11,669	22	2,693		**14,688**
Standard pipe	1,169	11,777	14,477	7,577	6,690	5,202	1,315	7,324	**55,940**	8,853	595		38,462	**73,497**
Oil country goods	3,526	621	719	1,119	83,333	27,098	5,655	6,545	**128,616**	1,618	515	11,658	7,039	**25,526**
Line pipe	5,157	620	755	12,733	74,394	31,725	24,883	3,451	**153,717**	1,779	3,101	3,243	18,527	**32,305**
Mechanical tubing	3,991	488	872	4,423	13,705	3,494		8,578	**35,573**	16,305		400	6,191	**24,591**
Pressure tubing	684	337	815	2,701	2,088	2,079		1,807	**10,512**	1,523		610		**5,031**
Stainless pipe & tubing	1,174	78	16	1,065	730	1,755		297	**5,116**	4,016		395		**4,414**
Pipe & tubing nonclassified	1,036	7	560	2	1,302	2,392		120	**5,425**				447	**452**
Structural pipe & tube, square & rectangular	927		45	1,583	8,469	3,371	6,979	4,669	**26,045**	61	1,757	3,856	70,120	**102,948**
Wire drawn	23,502	3,403	81,665	47,082	22,574	9,036	103	661	**188,061**	10,305	400	2,522		**17,384**
Wire nails	724	254	1,744	722	784	241		11,665	**16,192**	4		854	37,360	**71,507**
Barbed wire			1,616					71	**1,687**				34	**1,254**
Galvanized wire fencing			331		2			17	**350**					...
Bale ties & baling wire			213		40				**253**	20		87		**106**
Black plate	642	5,707	12,014	4,640	9,207	137	16,084		**48,431**		1,208	1,832	20	**4,634**
Tin plate	49	7,315	4,766	29,777	30,247			8,664	**80,818**					**15,629**
Tin free steel	363	166	788	3,828	23,361				**28,506**					...
Sheets—hot rolled	6,992	192,045	51,470	324,075	306,527	63,724	398	18,359	**963,590**	33,933	43,077	43,481	10,508	**152,642**
Sheets—cold rolled	17,459	118,566	59,223	140,126	332,060	54,179	42,483	51,213	**815,308**	8,418	21,757	32,495		**104,172**
Sheets—galvanized	6,498	15,610	17,355	75,287	221,980	32,942	271	33,147	**432,959**	8,903	17,635	3,374	51,377	**112,899**
All other metallic coated	212	769	1,434	16,651	21,148	482		7,461	**48,155**	8,853	7,928	8,129	8,657	**36,056**
Electric sheets & strip	688		13	206	10,025	8,993		4	**19,930**	8,952				**8,952**
Strip—hot rolled	56	57	296	22	196	533	373		**1,533**	995	60			**1,055**
Strip—cold rolled	5,730	103	597	3,236	24,178	744	1,684	8,601	**44,874**	6,305	1,757	139	40	**8,388**
Total steel mill products	**745,241**	**491,461**	**762,364**	**1,088,406**	**1,775,705**	**303,450**	**100,582**	**499,812**	**5,801,787**	**607,107**	**174,548**	**119,232**	**407,413**	**1,824,628**
Carbon	663,863	476,401	743,794	1,000,566	1,682,684	259,442	100,562	472,312	**5,432,916**	499,753	163,225	110,147	407,252	**1,690,217**
Alloy	72,566	9,956	13,347	55,351	79,222	33,349	20	7,146	**272,433**	76,542	2,658	8,410	160	**93,988**
Stainless	8,811	5,104	5,222	32,489	13,801	10,658		20,354	**96,439**	30,813	8,665	675		**40,423**

*Includes totals for Ireland, Denmark & Portugal

Table 22 *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1987

(Net tons)

Products	Asia					Oceania		Africa	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Republic of South Africa	Total Africa
Steel Mill Products									
Ingots, blooms, billets, slabs, etc	13	27,043	...	93,288	**121,250**	35	28,247	22,578	**22,578**
Wire rods	...	1,300	15,844	251,216	**517,261**	9,664	11,169	...	...
Structural shapes-plain 3" & over	...	75,012	9,087	584,456	**668,637**	41	41	17	**923**
Steel piling	...	...	...	1,403	**1,403**	...	...	...	...
Plates	...	44,445	1	30,031	**152,122**	4,457	4,457	150	**378**
Rails standard	...	2,514	...	61,348	**63,862**	...	...	...	...
Rails other	...	2,634	...	7,520	**10,154**	...	...	...	**66**
Joint bars and tie plates	...	584	...	12,392	**12,975**	...	...	...	...
Track spikes	12	37	...	5	**54**	...	...	...	...
Wheels and axles	33	35	168	3,626	**3,895**	30	54	879	**879**
Bars—hot rolled	3,271	9,108	9,017	76,287	**106,230**	...	...	...	**160**
Bars shapes under 3 inches	4	12,612	22,911	30,372	**66,741**	110	110	221	**227**
Concrete reinforcing bars	...	31,974	11,460	3,693	**168,655**	...	...	...	**1,933**
Bars—cold finished	1,550	5,062	1,337	60,949	**69,159**	6	6	...	**18**
Tool steel	1	1,388	...	6,077	**7,468**	19	19	...	...
Standard pipe	1,311	220,544	42,451	143,826	**541,968**	5,398	8,843	...	**11,655**
Oil country goods	...	29,844	12,993	177,355	**224,132**	130	130	...	**431**
Line pipe	...	58,912	4,960	105,114	**172,929**	...	77	...	**8,532**
Mechanical tubing	38	14,976	15,488	62,218	**105,616**	332	332	40	**122**
Pressure tubing	...	97	1,269	5,766	**7,416**	659	659	...	...
Stainless pipe & tubing	...	517	3,571	8,393	**12,482**	...	...	...	**6**
Pipe & tubing nonclassified	...	1	323	2,704	**3,161**	...	...	...	...
Structural pipe & tube, square & rectangular	707	3,035	1,579	44,275	**90,063**	5,350	5,350	...	**5,185**
Wire drawn	7,303	9,205	5,183	100,972	**125,917**	4,964	4,982	187	**187**
Wire nails	34,486	111,124	33,023	29,455	**249,633**	19	370	...	**1,165**
Barbed wire	391	2,092	...	81	**2,712**	21	70	152	**152**
Galvanized wire fencing	59	18	1,219	...	**1,296**	...	148	...	...
Bale ties & baling wire	206	11	302	278	**903**	...	...	...	...
Black plate	...	4,410	550	116,291	**121,250**	...	...	...	...
Tin plate	...	7,473	5	111,599	**119,091**	10,522	10,522	...	**115**
Tin free steel	...	...	...	61,100	**61,330**	...	...	...	...
Sheets—hot rolled	...	192,730	202	287,547	**526,338**	3,418	3,418	95	**1,050**
Sheets—cold rolled	21	250,549	54,352	524,152	**829,996**	14,342	14,342	25	**1,308**
Sheets—galvanized	584	159,367	3,173	1,087,538	**1,250,718**	39,292	50,972	252	**12,019**
All other metallic coated	...	7,567	178	168,818	**177,030**	53,660	53,660	...	...
Electric sheets & strip	...	919	...	28,392	**29,311**	...	...	...	...
Strip—hot rolled	...	6,186	1,827	8,105	**16,118**	...	...	...	...
Strip—cold rolled	...	2,568	83	24,404	**27,229**	2,378	2,438	...	...
Total steel mill products	**49,989**	**1,295,890**	**252,556**	**4,321,042**	**6,666,505**	**154,848**	**200,417**	**24,596**	**69,091**
Carbon	49,962	1,275,451	242,768	4,046,132	**6,359,950**	150,963	196,518	24,596	**69,015**
Alloy	2	6,138	4,304	206,563	**217,730**	3,884	3,884	...	**69**
Stainless	25	14,301	5,484	68,347	**88,826**	...	15	...	**6**

Table 22A

Imports of Iron and Steel Products by Countries of Origin—1987

(Net tons)

Products	Grand Total	Canada	Latin America				
			Mexico	Vene-zuela	Brazil	Argen-tina	Total Latin America
Other Steel Products:							
Structural shapes, fabricated	**274,712**	117,538	1,762	...	1,503	131	**3,431**
Shapes—cold formed	**1,107**	634	...	...	...	...	**...**
Sashes and frames	**7,996**	3,743	30	...	...	23	**58**
Fence or sign posts	**7,926**	28	7,187	97	150	...	**7,435**
Wire—nonmetallic covered	**6,175**	147	3,070	29	...	...	**3,602**
Wire rope	**119,691**	6,229	1,286	195	158	333	**2,182**
Wire strand	**176,030**	7,255	166	...	2,803	11,736	**14,840**
Welded wire fabric	**54,796**	15,789	11,100	15,723	...	2	**27,014**
Other nails and staples	**48,298**	1,898	445	...	3	...	**2,373**
Bale ties—strip	**303**	...	...	...	...	...	**...**
Bolts, nuts and rivets	**692,844**	79,746	5,716	79	1,728	141	**7,720**
Grinding balls	**4,655**	2,547	36	...	482	...	**521**
Blanks, nonrectangular flat rolled	**84,076**	9,889	700	...	39,202	3,387	**43,292**
Conduit	**9,543**	245	180	...	...	...	**545**
Pipe and tube fittings	**102,019**	4,018	4,243	2,029	5,313	1	**11,590**
Total other steel products	**1,590,178**	**249,704**	**35,923**	**18,153**	**51,341**	**15,755**	**124,601**
Total steel products	**22,004,661**	**3,919,843**	**523,284**	**188,533**	**1,154,435**	**346,661**	**2,306,527**
Iron products & ferroalloys:							
Bar iron, iron slabs & blooms etc	**181**	..	18	..	...		**18**
Cast iron soil pipe and fittings	**5,568**	3,478	5	528	...	...	**533**
Other cast iron pipe and fittings	**18,171**	86	782	..	208	...	**989**
Malleable cast iron pipe fittings	**19,310**	217	1,752	38	381	...	**2,170**
Castings and forgings	**195,622**	28,108	10,912	..	10,222	112	**21,246**
Pig iron	**354,799**	209,924	...	...	118,736	31	**118,784**
Sponge iron	**61,992**	48,898	3	2,868	1	...	**2,873**
Ferromanganese (manganese content)	**367,651**	24,036	17,911	...	5,512	...	**23,423**
Ferrosilicon (silicon content)	**229,164**	26,119	22	26,339	74,588	13,553	**114,504**
Ferrochromium (chromium content)	**325,197**	40	..	...	5,022	...	**5,022**
Other ferroalloys	**254,049**	6,771	39,604	...	10,864	...	**84,760**
Total Iron Products & Ferroalloys	**1,831,704**	**347,679**	**71,009**	**29,773**	**225,533**	**13,696**	**374,322**
Grand Total	**23,836,367**	**4,267,522**	**594,293**	**218,306**	**1,379,968**	**360,357**	**2,680,849**
Iron and steel scrap	**842,976**	725,622	18,757	...	12,700	...	**32,993**

Country total may not add to regional total because of omissions of some countries.

Table 22A *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1987

(Net tons)

Products	Europe													
	European Economic Community													
	United Kingdom	Nether-lands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Spain	Total E.E.C.*	Sweden	Finland	Austria	Turkey	Total Other Europe
Other Steel Products:														
Structural shapes, fabricated	4,694	272	2,970	581	866	1,194	195	252	**11,289**	2,060	501	164	...	**2,881**
Shapes—cold formed	...	2	...	...	99	4	...	...	**105**	175	...	87	...	**261**
Sashes and frames	68	1	1	10	117	329	...	...	**3,576**	37	...	15	...	**54**
Fence or sign posts	1	...	...	4	11	61	...	5	**197**	...	...	...	...	**...**
Wire—nonmetallic covered	61	41	...	68	8	5	...	...	**196**	1	1	...	...	**2**
Wire rope	918	346	12,796	9,132	4,339	6,183	...	1,291	**35,702**	63	...	173	...	**1,187**
Wire strand	2,180	3,257	20,821	7,537	7,907	16,423	...	14,191	**72,373**	100	...	...	...	**166**
Welded wire fabric	3,394	405	693	10	679	93	...	807	**6,953**	59	...	...	...	**105**
Other nails and staples	403	40	64	2,268	7,273	903	...	2,353	**13,309**	2,050	...	1,657	300	**4,575**
Bale ties—strip	...	...	...	...	288	...	...	...	**288**	...	...	...	15	**15**
Bolts, nuts and rivets	1,686	2,530	281	665	5,302	12,157	1	1,237	**24,099**	586	14	252	...	**14,684**
Grinding balls	19	...	3	66	214	680	...	3	**986**	...	...	...	...	**7**
Blanks, nonrectangular flat rolled	85	7,606	672	518	1,145	1	...	13,631	**23,658**	43	...	11	...	**1,283**
Conduit	19	29	118	2,050	1	1	...	58	**2,298**	6	...	...	...	**67**
Pipe and tube fittings	2,793	530	22	5,928	5,440	5,680	3	397	**20,866**	28	...	505	...	**7,643**
Total other steel products	**16,321**	**15,058**	**38,441**	**28,836**	**33,690**	**43,713**	**199**	**34,224**	**215,895**	**5,209**	**516**	**2,864**	**315**	**32,932**
Total steel products	**761,562**	**506,519**	**800,805**	**1,117,242**	**1,809,396**	**347,163**	**100,781**	**534,036**	**6,017,682**	**612,316**	**175,064**	**122,096**	**407,728**	**1,857,560**
Iron products & ferroalloys:														
Bar iron, iron slabs & blooms etc	18	...	...	...	...	...	...	...	**18**	...	...	...	...	**...**
Cast iron soil pipe and fittings	...	...	...	...	...	...	...	2	**3**	...	...	...	...	**...**
Other cast iron pipe and fittings	19	7	...	101	27	93	...	134	**382**	1	...	2	...	**21**
Malleable cast iron pipe fittings	1,139	...	...	77	8	...	...	...	**1,224**	...	...	...	...	**23**
Castings and forgings	1,307	198	175	1,819	3,822	12,369	...	1,198	**22,841**	5	20	...	161	**2,544**
Pig iron	...	...	...	12	49	...	...	...	**62**	...	...	19	...	**4,580**
Sponge iron	283	...	29	...	1,226	11	...	...	**1,549**	1,156	...	...	...	**1,156**
Ferromanganese (manganese content)	...	...	2,475	121,777	12,775	412	...	...	**137,440**	...	...	...	...	**21,830**
Ferrosilicon (silicon content)	1,131	19	666	4,303	1,921	854	...	1,268	**10,162**	...	...	...	...	**74,276**
Ferrochromium (chromium content)	20	1,240	...	...	9,400	464	7,385	...	**18,510**	2,764	3,309	...	15,796	**39,020**
Other ferroalloys	1,872	456	136	3,934	43	3,152	...	1,684	**11,277**	...	...	515	...	**53,358**
Total Iron Products & Ferroalloys	**5,790**	**1,920**	**3,479**	**132,023**	**29,273**	**17,356**	**7,385**	**4,287**	**203,467**	**3,926**	**3,329**	**537**	**15,957**	**196,808**
Grand Total	**767,352**	**508,439**	**804,284**	**1,249,265**	**1,838,669**	**364,519**	**108,166**	**538,323**	**6,221,149**	**616,242**	**178,393**	**122,633**	**423,685**	**2,054,368**
Iron and steel scrap	50,157	10,997	2	29	864	286	...	...	**65,746**	624	...	165	...	**1,180**

*Includes totals for Ireland, Denmark & Portugal

Table 22A *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1987

(Net tons)

Products	Asia					Oceania		Africa	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Total Oceania	Republic of South Africa	Total Africa
Other Steel Products:									
Structural shapes, fabricated	8	60,057	8,001	52,897	**129,503**	14	9,090	916	**979**
Shapes—cold formed	...	...	92	15	**107**	...	...	...	...
Sashes and frames	...	93	307	57	**563**	1	1	...	...
Fence or sign posts	...	20	209	4	**239**	27	27	...	...
Wire—nonmetallic covered	...	460	406	135	**1,559**	1	1	668	**668**
Wire rope	75	50,985	3,580	16,627	**74,385**	6	6	...	...
Wire strand	1,037	30,545	125	44,535	**76,926**	244	244	4,188	**4,226**
Welded wire fabric	2,383	748	264	1,477	**4,912**	...	22	...	...
Other nails and staples	2,581	16,394	2,746	3,703	**26,127**	14	17	...	...
Bale ties—strip	...	...	...	...	...	...	...	...	...
Bolts, nuts and rivets	48,686	50,667	252,387	208,058	**565,567**	588	593	284	**436**
Grinding balls	...	13	93	464	**570**	22	22	...	...
Blanks, nonrectangular flat rolled	...	1,355	13	1,562	**3,601**	...	...	315	**2,353**
Conduit	73	5,567	660	16	**6,388**	...	...	...	...
Pipe and tube fittings	6,956	18,339	14,511	12,938	**57,555**	280	283	...	**63**
Total other steel products	**61,798**	**235,242**	**283,394**	**342,489**	**948,003**	**1,198**	**10,307**	**6,371**	**8,726**
Total steel products	**111,787**	**1,531,132**	**535,950**	**4,663,531**	**7,614,508**	**156,046**	**210,724**	**30,967**	**77,817**
Iron products & ferroalloys:									
Bar iron, iron slabs & blooms etc	...	...	...	145	**145**	...	...	...	...
Cast iron soil pipe and fittings	178	444	61	...	**1,554**	...	...	...	...
Other cast iron pipe and fittings	5,386	3,774	6,083	61	**16,624**	16	16	...	**53**
Malleable cast iron pipe fittings	1,216	1,882	1,265	820	**15,676**	...	...	...	...
Castings and forgings	18,807	6,656	15,653	3,402	**119,050**	642	1,187	19	**646**
Pig iron	...	...	1	2	**292**	21,158	21,158	...	...
Sponge iron	...	...	...	7,504	**7,504**	...	...	...	**12**
Ferromanganese (manganese content)	...	...	...	8,331	**8,331**	8,185	8,185	144,407	**144,407**
Ferrosilicon (silicon content)	2,894	...	...	299	**3,213**	...	...	890	**890**
Ferrochromium (chromium content)	6	...	...	750	**756**	...	...	216,018	**261,850**
Other ferroalloys	1,268	...	2	273	**1,543**	17,142	21,857	68,965	**74,481**
Total Iron Products & Ferroalloys	**29,755**	**12,755**	**23,066**	**21,588**	**174,689**	**47,143**	**52,403**	**430,298**	**482,338**
Grand Total	**141,542**	**1,543,887**	**559,016**	**4,685,119**	**7,789,197**	**203,189**	**263,127**	**461,265**	**560,155**
Iron and steel scrap	560	85	20	16,754	**17,434**	...	...	...	...

Table 23

Imports of Iron and Steel Products by Customs District—1987

(Net tons)

Products	Grand Total	ATLANTIC COAST											
		Boston	Providnce	New York City	Phila.	Baltimore/ Wash., DC	Norfolk	Wil- mington	Charles- ton	Savannah	Tampa	Miami	Total
Steel Mill Products													
Ingots, blooms, billets, slabs, etc	**2,282,653**	90	—	210,543	32,535	30,415	117,372	127	145	8,821	—	108	**400,156**
Wire rods	**1,467,030**	31,849	3,600	17,317	84,027	35,682	1,208	1,626	7,516	52,439	85,328	3,257	**323,849**
Structural shapes-plain 3" & over	**1,778,314**	217,390	2,976	4,486	33,860	52,498	109	76,202	5,601	73,125	41,810	3,201	**511,258**
Steel piling	**109,705**	6,421	2,747	528	3,765	470	—	—	87	5,808	3,732	7,864	**31,422**
Plates	**1,096,424**	68,907	2,618	3,170	27,026	35,114	4,331	17,240	1,398	28,259	16,246	7,725	**212,034**
Rails standard	**167,884**	1,543	624	193	1,138	7,167	—	115	36	93	—	19	**10,928**
Rails other	**45,646**	147	190	15	2,869	1,604	—	—	—	238	43	—	**5,106**
Joint bars and tie plates	**13,969**	—	—	—	598	1,749	—	—	—	5	—	—	**2,352**
Track spikes	**370**	—	—	2	34	—	—	—	—	—	—	—	**36**
Wheels and axles	**18,120**	20	—	1,765	3,673	987	72	12	234	60	17	11	**6,851**
Bars—Hot rolled	**610,256**	9,162	761	2,908	15,333	8,661	781	4,267	564	6,638	8,126	2,520	**59,721**
Bars shapes under 3 inches	**140,469**	5,890	17	1,371	6,875	3,321	144	683	386	3,062	4,055	756	**26,560**
Concrete reinforcing bars	**351,632**	7,430	—	1	16,394	4,171	—	2,055	2,024	—	1,159	66,281	**99,515**
Bars—Cold finished	**213,466**	6,484	470	9,997	9,380	11,016	4,501	5,488	1,418	2,828	1,032	1,455	**54,069**
Tool steel	**40,599**	6,419	333	4,362	2,266	7,006	2,668	151	1,950	124	—	61	**25,340**
Standard pipe	**859,204**	37,880	5,997	8,982	64,467	4,608	3,592	20,187	4,161	26,171	31,129	2,355	**209,529**
Oil country goods	**570,440**	3,853	—	4,832	21,282	3,200	556	945	244	2,516	1,949	55	**39,432**
Line pipe	**550,071**	7,246	—	650	7,347	702	—	370	233	5,716	52,417	224	**74,905**
Mechanical tubing	**283,619**	2,836	—	2,311	13,288	14,065	1,380	761	5,185	5,172	2,749	1,002	**48,749**
Pressure tubing	**26,528**	3,290	—	915	4,004	219	—	—	318	2,746	83	357	**11,932**
Stainless pipe & tubing	**28,231**	48	—	3,977	5,142	368	37	27	493	564	376	—	**11,032**
Pipe & tubing nonclassified	**23,332**	6	25	17	667	245	3	5	—	72	—	—	**1,040**
Structural pipe & tube, sq. & rect	**428,758**	13,131	1,378	1,071	22,264	5,511	—	4,497	407	12,064	14,952	548	**75,823**
Wire drawn	**568,407**	4,671	45	37,903	9,030	23,266	8,897	8,736	21,047	4,243	4,385	12,200	**134,423**
Wire nails	**440,746**	14,101	3,900	22,430	50,241	8,385	2,322	25,430	15,528	19,177	9,226	14,302	**185,042**
Barbed wire	**16,643**	6	—	109	516	780	82	738	451	451	406	392	**3,931**
Galvanized wire fencing	**13,172**	51	38	67	—	39	24	—	24	277	99	367	**986**
Bale ties & baling wire	**1,719**	—	—	454	—	—	—	—	—	48	—	96	**598**
Black plate	**185,976**	18,889	1,137	18,377	27,737	456	1,537	97	—	17,245	3,234	—	**88,709**
Tin plate	**332,306**	13,129	2,364	69	11,933	8,042	P	283	723	9,524	2,608	—	**48,675**
Tin free steel	**101,172**	689	—	104	4,569	2,426	22	—	—	—	—	—	—7,810
Sheets—Hot rolled	**2,515,178**	97,148	16,049	5,746	162,883	15,858	4,111	43,617	5,376	16,222	35,393	8,992	**411,395**
—Cold rolled	**2,244,958**	144,749	35,051	53,464	208,867	26,408	46,716	29,916	9,235	32,990	9,381	11,257	**608,034**
Sheets galvanized	**2,306,233**	48,148	10,720	14,827	227,153	9,306	130,170	22,867	30,573	49,001	92,987	21,967	**657,719**
All other metallic coated	**323,709**	6,344	516	12,439	27,076	295	7,276	924	2,499	6,565	737	18,226	**82,897**
Electric sheets & strip	**69,824**	9,651	—	49	4,189	1,095	—	—	—	10,132	54	—	**25,170**
Strip—Hot rolled	**43,197**	1,381	20	827	242	609	1,023	223	14	417	2,836	93	**7,685**
—Cold rolled	**144,536**	15,303	2,876	16,072	4,632	1,941	948	440	4,912	2,392	1,767	838	**52,121**
Total Steel Mill Products	**20,414,493**	**804,304**	**94,452**	**462,351**	**1,117,301**	**327,682**	**339,880**	**268,031**	**122,784**	**405,204**	**428,315**	**186,530**	**4,556,834**
Carbon	**19,217,998**	762,184	88,778	403,009	1,045,608	252,307	326,705	262,139	103,182	367,557	422,549	186,294	**4,220,312**
Alloy	**902,082**	33,907	1,596	24,089	37,433	56,642	11,257	5,463	16,787	26,844	5,309	64	**219,391**
Stainless	**294,413**	8,213	4,078	35,253	34,260	18,734	1,918	428	2,815	10,803	457	172	**117,131**

Table 23 *(continued)*

Imports of Iron and Steel Products by Customs District—1987

(Net tons)

Products	GULF COAST-MEXICAN BORDER							
	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	Total
Steel Mill Products								
Ingots, blooms, billets, slabs, etc	311,894	249,963	227,267	23,743	—	61,170	17	**874,054**
Wire rods	17,258	135,672	—	84,261	5,441	15,910	282	**258,824**
Structural shapes-plain 3" & over	62,869	159,305	—	194,088	—	10,875	—	**427,137**
Steel piling	579	8,867	—	12,763	—	—	—	**22,209**
Plates	32,383	81,687	16,842	159,272	—	12,346	—	**302,530**
Rails standard	36,886	5,649	—	4,405	—	—	—	**46,940**
Rails other	4,497	6,299	—	431	—	—	—	**11,227**
Joint bars and tie plates	1,879	49	—	134	—	—	—	**2,062**
Track spikes	—	—	—	—	—	—	—	**—**
Wheels and axles	—	662	—	427	4	37	—	**1,130**
Bars—Hot rolled	2,928	41,649	—	15,131	11	8,500	512	**68,731**
Bars shapes under 3 inches	406	9,497	—	7,070	—	1,118	—	**18,091**
Concrete reinforcing bars	—	8,110	—	5,215	—	15,004	3	**28,332**
Bars—Cold finished	1,447	6,743	—	10,757	255	2,734	—	**21,936**
Tool steel	177	827	—	155	—	136	—	**1,295**
Standard pipe	3,497	35,080	3	82,425	—	61,726	—	**182,731**
Oil country goods	114	29,325	—	285,229	6	495	—	**315,169**
Line pipe	53,011	62,735	—	112,720	—	23,819	526	**252,811**
Mechanical tubing	1,200	25,488	—	44,954	11	2,584	—	**74,237**
Pressure tubing	213	3,062	—	3,930	—	19	—	**7,224**
Stainless pipe & tubing	79	752	—	5,815	28	782	—	**7,456**
Pipe & tubing nonclassified	—	306	—	3,781	—	1,971	—	**6,058**
Structural pipe & tube, sq. & rect	7,148	36,181	—	70,474	—	2,054	—	**115,857**
Wire drawn	1,117	52,388	—	19,952	248	3,708	169	**77,582**
Wire nails	—	27,429	—	25,778	179	2,797	50	**56,233**
Barbed wire	269	3,810	—	1,742	—	2,752	9	**8,582**
Galvanized wire fencing	—	5	—	387	—	6,947	89	**7,428**
Bale ties & baling wire	—	284	—	1	—	23	27	**335**
Black plate	2,044	16,830	—	2,645	—	—	—	**21,519**
Tin plate	7,549	26,639	—	6,452	—	—	—	**40,640**
Tin free steel	701	4,020	—	6,788	—	—	—	**11,509**
Sheets—Hot rolled	23,685	136,521	1,460	263,686	—	6,352	—	**431,704**
—Cold rolled	18,455	230,095	—	132,269	8	27,152	25	**408,004**
Sheets galvanized	8,577	241,392	—	220,386	—	98,019	4,665	**573,039**
All other metallic coated	2,290	76,449	—	15,619	—	—	—	**94,358**
Electric sheets & strip	—	14,005	—	678	—	—	—	**14,683**
Strip—Hot rolled	8	1,184	—	3,334	—	2,439	—	**6,965**
—Cold rolled	534	9,331	—	4,388	3	2,199	92	**16,547**
Total Steel Mill Products	**603,692**	**1,748,289**	**245,571**	**1,831,286**	**6,192**	**373,671**	**6,466**	**4,815,169**
Carbon	597,541	1,631,790	235,600	1,730,598	4,031	344,407	6,464	**4,550,431**
Alloy	5,280	105,401	3,757	83,233	2,115	9,687	—	**209,473**
Stainless	872	11,097	6,215	17,455	47	19,577	—	**55,263**

Table 23 *(continued)*

Imports of Iron and Steel Products by Customs District—1987

(Net Tons)

Products	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Columbia-Snake	Seattle	Total	Virgin Islands	Anch-orage	Hono-lulu	San Juan	Total
Steel Mill Products											
Ingots, blooms, billets, slabs, etc	417	425,386	96	15,678	40,866	**482,443**	—	—	—	—	—
Wire rods	399	222,367	51,766	356	31,412	**306,300**	—	—	—	11,940	**11,940**
Structural shapes-plain 3" & over	5,351	254,883	96,763	45,397	14,663	**417,057**	—	—	1,056	14,969	**16,025**
Steel piling	—	3,926	3,308	2,901	1,388	**11,523**	—	—	—	966	**966**
Plates	—	51,688	18,565	26,561	29,761	**126,575**	—	—	970	4,777	**5,747**
Rails standard	—	3,930	2,029	27,969	75	**34,003**	—	—	—	—	—
Rails other	—	7,122	295	655	65	**8,137**	344	—	101	—	**445**
Joint bars and tie plates	—	3	18	8,780	8	**8,809**	—	—	—	—	—
Track spikes	—	—	1	—	13	**14**	—	—	—	—	—
Wheels and axles	—	83	71	19	48	**221**	—	—	—	—	—
Bars—Hot rolled	3,040	29,493	3,555	3,888	1,904	**41,880**	15	—	529	17,756	**18,300**
Bars shapes under 3 inches	334	33,562	5,389	3,145	2,086	**44,516**	—	19	67	2,774	**2,860**
Concrete reinforcing bars	6,861	36,980	30,914	873	3,596	**79,224**	2,537	—	3,149	135,757	**141,443**
Bars—Cold finished	173	31,170	3,350	5,877	3,209	**43,779**	—	—	4	1,754	**1,758**
Tool steel	—	1,606	81	273	171	**2,131**	—	—	—	—	—
Standard pipe	—	266,535	73,686	29,932	31,810	**401,963**	—	—	2,588	8,804	**11,392**
Oil country goods	1,899	43,103	3,907	7,080	2,624	**58,613**	—	23,082	—	1,148	**24,230**
Line pipe	357	96,806	6,893	6,584	5,381	**116,021**	—	5,017	14	2,176	**7,207**
Mechanical tubing	—	26,987	7,229	9,478	8,980	**52,674**	—	125	50	9,656	**9,831**
Pressure tubing	20	1,646	725	—	132	**2,523**	—	1	—	1,575	**1,576**
Stainless pipe & tubing	—	1,797	88	860	822	**3,567**	21	—	—	15	**36**
Pipe & tubing nonclassified	—	574	141	6	286	**1,007**	—	—	—	1,842	**1,842**
Structural pipe & tube, sq. & rect	—	42,855	12,375	11,821	4,325	**71,376**	—	23	293	1,911	**2,227**
Wire drawn	409	32,080	6,973	6,598	35,032	**81,092**	9	—	2,289	11,192	**13,490**
Wire nails	12	54,771	34,198	2,451	32,041	**123,473**	3	6	461	868	**1,338**
Barbed wire	—	922	1,007	358	23	**2,310**	—	—	89	1,672	**1,761**
Galvanized wire fencing	68	787	2	23	431	**1,311**	1	5	75	42	**123**
Bale ties & baling wire	33	153	—	—	43	**229**	—	—	—	65	**65**
Black plate	—	24,233	7,726	—	7	**31,966**	20	—	—	429	**449**
Tin plate	—	18,631	65,988	—	—	**84,619**	—	—	—	19,595	**19,595**
Tin free steel	—	26,352	21,003	—	—	**47,355**	—	—	—	7,388	**7,388**
Sheets—Hot rolled	47	362,604	100,224	58,677	31,983	**553,535**	—	—	619	4,812	**5,431**
—Cold rolled	—	348,344	118,554	7,642	12,488	**487,028**	2	—	—	5,299	**5,301**
Sheets galvanized	—	237,580	62,129	60,982	49,565	**410,256**	41	—	2,395	32,143	**34,579**
All other metallic coated	1	38,378	17,489	2,542	10,909	**69,319**	87	—	1,883	13,812	**15,782**
Electric sheets & strip	—	2,713	2,217	—	—	**4,930**	—	—	—	—	—
Strip—Hot rolled	—	4,792	673	1,160	859	**7,484**	—	—	23	106	**129**
—Cold rolled	381	7,230	4,813	2,239	457	**15,120**	—	—	258	1,944	**2,202**
Total Steel Mill Products	**19,803**	**2,742,071**	**764,241**	**350,806**	**357,462**	**4,234,383**	**3,084**	**28,277**	**16,912**	**317,185**	**365,458**
Carbon	19,258	2,670,188	750,938	336,431	342,712	**4,119,527**	704	27,440	16,912	315,245	**360,301**
Alloy	542	39,824	9,536	12,269	11,204	**73,375**	2,357	838	—	851	**4,046**
Stainless	3	32,059	3,767	2,106	3,546	**41,481**	22	—	—	1,089	**1,111**

Table 23 *(continued)*

Imports of Iron and Steel Products by Customs District—1987

(Net Tons)

Products	GREAT LAKES-CANADIAN BORDER												
	Portland	St. Albans	Ogdensburg	Buffalo	Great Falls	Pembina	Duluth Mineapls	Milwaukee	Detroit	Chicago	Cleveland	St. Louis	Total
Steel Mill Products													
Ingots, blooms, billets, slabs, etc.	1	44	578	54,859	—	21	56	9,291	64,614	137,560	258,976	—	**526,000**
Wire rods	6	4,742	69,253	149,754	91	—	—	—	231,322	29,499	77,649	3,801	**566,117**
Structural shapes-plain 3" & over	561	24,851	11,692	112,403	813	20,519	23	12,725	122,165	83,169	17,913	—	**406,834**
Steel piling	64	1,359	10,223	832	—	—	23	1,118	15,151	10,582	4,235	—	**43,587**
Plates	151	10,246	8,493	89,502	6,661	6,914	2,869	15,380	206,095	68,282	33,413	1,527	**449,533**
Rails standard	3,106	378	7,254	34,506	21	76	1,604	—	22,587	5,377	1,102	—	**76,011**
Rails other	—	339	4,826	6,142	—	204	—	—	8,639	156	426	3	**20,735**
Joint bars and tie plates	448	—	—	51	—	8	—	—	141	89	11	—	**748**
Track spikes	279	21	12	—	—	—	—	—	8	—	—	—	**320**
Wheels and axles	—	138	211	15	1	6,892	1,853	30	671	90	17	—	**9,918**
Bars—Hot rolled	17	6,238	6,279	83,151	2,401	13,553	97	46	222,468	31,630	52,271	3,472	**421,623**
Bars shapes under 3 inches	46	1,056	603	24,933	4	23	73	21	14,269	6,485	969	—	**48,482**
Concrete reinforcing bars	113	1,297	342	1,120	143	2	—	—	78	22	1	—	**3,118**
Bars—Cold finished	17	1,496	2,042	28,783	56	—	413	55	26,836	28,084	4,106	—	**91,888**
Tool steel	—	732	48	3,529	—	6	47	—	5,067	1,998	401	3	**11,831**
Standard pipe	1,708	7,793	15,618	6,444	169	2,487	57	—	8,435	7,587	3,288	—	**53,586**
Oil country goods	36	138	286	53,946	7,734	1,855	705	—	64,493	2,608	975	218	**132,994**
Line pipe	226	538	294	55,004	23,843	7,283	451	21	10,627	664	155	19	**99,125**
Mechanical tubing	253	3,694	9,749	27,361	1,552	56	1	8	46,243	7,255	1,762	196	**98,130**
Pressure tubing	143	—	151	45	—	—	—	—	270	2,103	561	—	**3,273**
Stainless pipe & tubing	6	499	1,930	1,042	79	—	9	20	1,950	593	—	12	**6,140**
Pipe & tubing nonclassified	5	35	34	351	62	—	—	—	11,738	517	645	—	**13,387**
Structural pipe & tube, sq. & rect.	119	10,108	10,087	42,307	1,669	1,125	275	—	95,738	1,786	9	253	**163,476**
Wire drawn	5,617	27,545	37,714	63,732	20	65	913	1,358	74,173	44,369	3,854	2,460	**261,820**
Wire nails	4,142	11,600	14,513	10,131	4	—	125	132	18,021	14,916	1,003	71	**74,658**
Barbed wire	—	—	4	36	—	—	—	—	—	21	—	—	**61**
Galvanized wire fending	8	—	1,964	582	—	2	24	98	594	13	—	40	**3,325**
Bale ties & baling wire	15	24	65	147	—	—	—	—	151	—	90	—	**492**
Black plate	—	63	81	6,314	—	—	—	—	10,227	12,477	14,114	56	**43,332**
Tin plate	—	—	556	56,491	—	—	—	—	43,189	32,973	5,311	258	**138,778**
Tin free steel	—	—	24	6,167	—	—	—	—	4,387	14,011	2,522	—	**27,111**
Sheets—Hot rolled	8,724	8,479	7,095	112,198	16,533	54,010	36,866	12,148	478,572	206,293	164,548	7,648	**1,113,114**
—Cold rolled	4	23,049	17,189	77,400	—	359	11,391	4,052	240,466	296,483	59,112	7,085	**736,590**
Sheets galvanized	193	94	1,473	70,489	8	—	2,712	—	420,080	82,925	49,459	3,206	**630,639**
All other metallic coated	91	96	1,786	561	—	422	863	—	21,673	19,291	16,569	—	**61,352**
Electric sheets & strip	—	—	—	3,147	—	—	12	—	8,819	11,207	1,843	13	**25,041**
Strip—Hot rolled	3	597	861	5,770	—	—	—	—	13,359	270	75	—	**20,935**
—Cold rolled	—	181	3,056	24,436	18	17	146	19	22,306	4,242	2,620	1,507	**58,548**
Total Steel Mill Products	**26,101**	**147,471**	**246,387**	**1,213,680**	**61,883**	**115,900**	**61,609**	**56,521**	**2,535,619**	**1,165,629**	**780,005**	**31,848**	**6,442,652**
Carbon	26,084	146,095	238,786	1,120,744	61,294	111,007	60,976	43,377	2,343,583	1,056,239	727,767	31,477	**5,967,429**
Alloy	11	762	2,033	62,739	446	4,835	348	13,079	180,129	81,360	49,951	103	**395,796**
Stainless	6	615	5,569	30,197	142	58	285	65	11,906	28,031	2,287	269	**79,430**

Table 23A

Imports of Iron and Steel Products by Customs District—1987

(Net tons)

Products	Grand Total	ATLANTIC COAST											
		Boston	Providnce	New York City	Phila.	Baltimore/ Wash., DC	Norfolk	Wil-mington	Charles-ton	Savannah	Tampa	Miami	Total
Other Steel Products													
Structural shapes, fabricated	**274,712**	3,359	101	3,137	336	1,593	714	11,735	1,271	8,770	8,696	1,184	**40,896**
Shapes—Cold formed	**1,107**	109	—	38	—	15	—	—	10	4	87	—	**263**
Sashes and frames	**7,996**	53	—	355	6	86	20	935	1,788	376	5	196	**3,820**
Fence or sign posts	**7,926**	97	—	6	—	101	—	—	—	—	—	5	**209**
Wire—Nonmetallic covered	**6,175**	2	1	1,862	3	125	8	14	89	106	—	—	**2,210**
Wire rope	**119,691**	3,594	207	10,825	760	6,584	3,668	867	11,355	5,112	3,194	1,066	**47,232**
Wire strand	**176,030**	1,087	—	15,977	3,716	10,151	9,744	5,479	13,676	15,820	6,947	5,768	**88,365**
Welded wire fabric	**54,796**	131	—	3,396	158	983	107	59	939	398	1,009	13,200	**20,380**
Other nails and staples	**48,298**	1,262	150	2,066	1,584	844	350	4,988	1,362	2,395	4,143	486	**19,630**
Bale ties—Strip	**303**	—	—	15	—	—	—	—	—	—	—	—	**15**
Bolts, nuts and rivets	**692,844**	10,764	3,414	78,517	16,254	42,556	5,549	5,053	3,123	28,134	6,538	4,444	**204,346**
Grinding balls	**4,655**	—	—	135	227	26	66	—	—	—	22	3	**479**
Blanks, nonrectangular flat rolled	**84,076**	29	—	240	2,316	1,135	649	—	—	16	1	32	**4,418**
Conduit	**9,543**	—	—	283	689	44	13	10	64	92	74	22	**1,291**
Pipe and tube fittings	**102,019**	2,051	—	8,045	2,668	2,056	1,550	237	721	4,387	3,838	233	**25,786**
Total Other Steel Products	1,590,170	**22,538**	**3,873**	**124,898**	**28,718**	**66,301**	**22,439**	**29,378**	**34,398**	**65,609**	**34,555**	**26,639**	**459,340**
Total Steel Products	22,004,663	**826,842**	**98,325**	**587,249**	**1,146,019**	**393,983**	**362,319**	**297,409**	**157,182**	**470,813**	**462,870**	**213,169**	**5,016,174**
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc	**181**	—	—	71	—	—	—	—	18	—	—	—	**89**
Cast iron soil and pipe and fittings	**5,588**	—	—	1,010	—	—	—	—	—	109	81	—	**1,200**
Other cast iron pipe and fittings	**18,171**	889	—	2,491	656	275	781	17	35	1,299	138	29	**6,610**
Malleable cast iron pipe fittings	**19,310**	26	—	3,968	490	421	33	—	119	240	787	135	**6,219**
Castings and forgings	**195,622**	6,461	100	34,733	6,725	12,133	12,247	6,077	2,642	8,819	335	3,049	**93,321**
Pig iron	**354,799**	14,224	—	340	15,334	12	33,443	—	—	6,708	—	18	**70,079**
Sponge iron	**61,992**	106	—	1,172	6,315	—	—	—	3	6	—	—	**7,602**
Ferromanganese (manganese content)	**367,651**	—	—	—	462	38,389	—	—	6,858	—	—	—	**45,709**
Ferrosilicon (silicon content)	**229,164**	—	—	273	16,790	7,168	13	17	—	3,873	—	—	**28,134**
Ferrochromium (chromium content)	**325,197**	—	—	131	5,005	39,854	—	—	—	—	—	—	**44,990**
Other Ferroalloys	**254,049**	1	—	9,089	5,837	50,797	—	—	4,004	—	5,361	301	**75,390**
Total Iron Products & Ferroalloys	**1,831,704**	**21,706**	**100**	**53,278**	**57,616**	**149,049**	**46,517**	**6,112**	**13,678**	**21,055**	**6,703**	**3,532**	**379,343**
Grand Total	23,836,367	**848,548**	**98,425**	**640,527**	**1,203,635**	**543,032**	**408,836**	**303,521**	**170,860**	**491,868**	**469,573**	**216,701**	**5,395,517**
Iron and steel scrap	**842,975**	1	—	883	830	54	1	—	—	—	12,774	710	**15,253**

Table 23A *(continued)*

Imports of Iron and Steel Products by Customs District—1987

(Net tons)

Products	GULF COAST-MEXICAN BORDER							
	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	Total
Other Steel Products								
Structural shapes, fabricated	863	18,012	—	10,868	18	1,308	270	**31,339**
Shapes—Cold formed	—	—	—	—	—	—	—	**—**
Sashes and frames	—	29	—	11	—	22	10	**72**
Fence or sign posts	—	89	—	22	—	2,548	—	**2,659**
Wire—Nonmetallic covered	3	41	—	120	—	3,070	—	**3,234**
Wire rope	3,530	19,269	—	14,430	65	1,360	19	**38,673**
Wire strand	2,324	12,671	—	30,887	1,316	163	2	**47,363**
Welded wire fabric	4	—	—	1,183	—	6,963	107	**8,257**
Other nails and staples	118	4,743	—	3,339	128	316	4	**8,648**
Bale ties—Strip	—	—	—	—	—	—	—	**—**
Bolts, nuts and rivets	5,605	12,897	—	25,401	2,886	5,245	166	**52,200**
Grinding balls	—	118	—	44	—	36	—	**198**
Blanks, nonrectangular flat rolled	1,001	34,048	—	12,214	—	11	700	**47,974**
Conduit	4,238	—	—	560	5	32	—	**4,835**
Pipe and tube fittings	677	6,479	—	29,664	163	3,905	4	**40,892**
Total Other Steel Products	**18,363**	**108,395**	**—**	**128,742**	**4,581**	**24,979**	**1,282**	**286,344**
Total Steel Products	**622,055**	**1,856,684**	**245,571**	**1,960,028**	**10,773**	**398,650**	**7,748**	**5,101,513**
Iron Products & Ferroalloys								
Bar iron, iron slabs & blooms, etc	—	—	—	75	—	18	—	**93**
Cast iron soil pipe and fittings	—	52	—	33	21	—	—	**106**
Other cast iron pipe and fittings	15	24	—	2,198	—	63	19	**2,319**
Malleable cast iron pipe fittings	—	145	—	699	244	1,721	69	**2,878**
Castings and forgings	182	6,741	—	16,675	397	4,554	2,234	**30,783**
Pig iron	—	132,471	—	—	—	—	—	**132,471**
Sponge iron	—	2	—	67	—	—	—	**69**
Ferromanganese (manganese content)	2,698	240,969	—	—	—	—	—	**243,667**
Ferrosilicon (silicon content)	5,615	135,420	—	4,333	—	22	—	**145,390**
Ferrochromium (chromium content)	—	279,155	—	—	—	—	—	**279,155**
Other Ferroalloys	5,799	128,579	—	5,374	—	5,852	—	**145,604**
Total Iron Products & Ferroalloys	**14,309**	**923,558**	**—**	**29,454**	**663**	**12,230**	**2,323**	**982,535**
Grand Total	**636,364**	**2,780,242**	**245,571**	**1,989,482**	**11,436**	**410,880**	**10,071**	**6,084,048**
Iron and steel scrap	—	75,320	—	25	154	10,137	12,116	**97,852**

Table 23A *(continued)*

Imports of Iron and Steel Products by Customs District—1987

(Net Tons)

Products	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Columbia-Snake	Seattle	Total	Virgin Islands	Anch-orage	Hono-lulu	San Juan	Total
Other Steel Products											
Structural shapes, fabricated	345	27,930	23,336	6,010	23,945	**81,566**	—	681	3,691	1,144	**5,516**
Shapes—Cold formed	—	141	—	—	93	**234**	—	—	—	—	**—**
Sashes and frames	—	30	14	—	843	**887**	—	—	2	23	**25**
Fence or sign posts	4,639	97	—	—	5	**4,741**	—	—	31	102	**133**
Wire—Nonmetallic covered	—	240	9	7	210	**466**	—	—	2	1	**3**
Wire rope	233	4,028	3,401	6,307	8,938	**22,907**	—	30	211	46	**287**
Wire strand	3	9,145	4,918	971	12,559	**27,596**	—	16	552	2,105	**2,673**
Welded wire fabric	4,007	1,843	273	67	9,399	**15,589**	79	—	595	2,189	**2,863**
Other nails and staples	153	10,991	2,032	188	1,420	**14,784**	—	—	23	779	**802**
Bale ties—Strip	—	288	—	—	—	**288**	—	—	—	—	**—**
Bolts, nuts and rivets	808	147,363	17,848	12,615	49,901	**228,535**	2	5	352	809	**1,168**
Grinding balls	—	393	—	1	—	**394**	—	—	—	—	**—**
Blanks, nonrectangular flat rolled	—	1,680	4,783	2	7	**6,472**	3	—	—	320	**323**
Conduit	148	1,297	23	1	—	**1,469**	—	—	—	242	**242**
Pipe and tube fittings	126	15,184	1,872	1,465	1,689	**20,336**	—	16	—	183	**199**
Total Other Steel Products	**10,463**	**220,650**	**58,509**	**27,635**	**109,009**	**426,264**	**84**	**749**	**5,460**	**7,942**	**14,234**
Total Steel Products	**30,266**	**2,962,721**	**822,750**	**378,441**	**466,471**	**4,660,647**	**3,168**	**29,026**	**22,372**	**325,127**	**379,692**
Iron Products & Ferroalloys											
Bar iron, iron slabs & blooms, etc	—	—	—	—	—	**—**	—	—	—	—	**—**
Cast iron soil pipe and fittings	5	712	64	—	144	**925**	—	—	—	—	**—**
Other cast iron pipe and fittings	1,055	6,152	802	99	36	**8,144**	—	—	—	34	**34**
Malleable cast iron pipe fittings	—	7,057	90	21	208	**7,376**	—	—	—	83	**83**
Castings and forgings	5,626	10,025	11,607	503	7,393	**35,154**	—	—	1	434	**435**
Pig iron	—	—	21,158	—	3,623	**24,781**	—	—	—	31	**31**
Sponge iron	3	481	10	—	8	**502**	—	—	—	5	**5**
Ferromanganese (manganese content)	—	—	—	3,756	2,205	**5,961**	—	—	—	—	**—**
Ferrosilicon (silicon content)	—	724	264	659	254	**1,901**	—	—	—	—	**—**
Ferrochromium (chromium content)	—	357	39	126	—	**522**	—	—	—	—	**—**
Other Ferroalloys	4,728	1,121	2,205	11,384	1,874	**21,312**	—	—	—	—	**—**
Total Iron Products & Ferroalloys	**11,418**	**26,628**	**36,241**	**16,547**	**15,745**	**106,578**	**—**	**—**	**1**	**585**	**588**
Grand Total	**41,684**	**2,989,349**	**858,991**	**394,988**	**482,216**	**4,767,225**	**3,168**	**29,026**	**22,373**	**325,712**	**380,280**
Iron and steel scrap	2,001	937	14	2	135,656	**138,610**	—	—	233	785	**1,018**

Table 23A *(continued)*

Imports of Iron and Steel Products by Customs District—1987

(Net Tons)

Products	GREAT LAKES-CANADIAN BORDER												
	Portland	St. Albans	Ogdensburg	Buffalo	Great Falls	Pembina	Duluth Mineapls	Milwaukee	Detroit	Chicago	Cleveland	St. Louis	Total
Other Steel Products													
Structural shapes, fabricated	25,057	5,943	24,089	41,054	1,154	186	911	—	16,244	558	66	133	**115,395**
Shapes—Cold formed	—	—	23	384	—	—	—	—	202	—	—	—	**609**
Sashes and frames	22	236	133	1,062	924	13	316	—	432	48	1	5	**3,192**
Fence or sign posts	5	1	22	11	2	135	—	—	7	—	—	—	**183**
Wire—Nonmetallic covered	—	—	14	—	5	10	—	—	107	99	1	24	**260**
Wire rope	17	259	1,030	1,007	127	251	26	39	1,042	3,638	109	3,049	**10,594**
Wire strand	3	21	520	571	245	896	18	—	557	6,400	333	466	**10,030**
Welded wire fabric	5	4,192	719	1,010	—	166	1	21	1,238	174	163	17	**7,706**
Other nails and staples	—	62	543	861	1	18	1	51	680	1,994	116	111	**4,438**
Bale ties—Strip	—	—	—	—	—	—	—	—	—	—	—	—	**—**
Bolts, nuts and rivets	676	2,077	25,392	21,069	331	2,535	188	980	48,525	88,996	11,942	3,833	**206,594**
Grinding balls	—	20	399	1,976	22	—	—	2	995	140	6	24	**3,584**
Blanks, nonrectangular flat rolled	227	24	46	219	—	—	—	—	9,540	12,276	2,345	212	**24,889**
Conduit	58	—	3	33	—	—	—	—	205	1,398	6	1	**1,704**
Pipe and tube fittings	32	188	1,055	1,363	308	93	66	16	1,463	9,791	312	118	**14,805**
Total Other Steel Products	**26,103**	**13,023**	**53,988**	**70,619**	**3,118**	**4,351**	**1,527**	**1,111**	**81,237**	**125,513**	**15,401**	**7,992**	**403,983**
Total Steel Products	**52,204**	**160,494**	**300,375**	**1,284,299**	**65,001**	**65,960**	**117,427**	**57,632**	**2,616,856**	**1,291,142**	**795,406**	**39,840**	**6,846,635**
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc	—	—	—	—	—	—	—	—	—	—	—	—	**—**
Cast iron soil pipe and fittings	2	20	76	3,013	—	—	—	—	225	—	—	—	**3,336**
Other cast iron pipe and fittings	—	—	20	40	18	6	—	—	34	568	379	—	**1,065**
Malleable cast iron pipe fittings	—	—	136	328	19	—	—	8	1,431	290	361	181	**2,754**
Castings and forgings	208	3,352	5,367	6,276	2,579	131	1	16	9,941	6,984	989	84	**35,928**
Pig iron	—	1,122	3,032	625	—	—	—	63,729	4,575	21,091	33,262	—	**127,436**
Sponge iron	—	1,233	20,646	11,914	3	1	—	13	15,616	3,631	754	1	**53,812**
Ferromanganese (manganese content)	—	—	85	872	—	—	—	—	13,521	40,747	17,091	—	**72,316**
Ferrosilicon (silicon content)	—	181	2,522	17,391	—	—	—	815	6,852	17,511	8,378	89	**53,739**
Ferrochromium (chromium content)	—	—	—	398	—	—	—	—	1	73	58	—	**530**
Other Ferroalloys	—	—	442	2,696	—	—	—	18	933	5,992	1,661	—	**11,742**
Total Iron Products & Ferroalloys	**210**	**5,909**	**32,325**	**43,552**	**2,620**	**138**	**1**	**64,600**	**53,128**	**96,888**	**62,933**	**355**	**362,658**
Grand Total	**52,414**	**166,403**	**332,700**	**1,327,851**	**67,621**	**66,098**	**117,428**	**122,232**	**2,669,984**	**1,388,030**	**858,339**	**40,195**	**7,209,293**
Iron and steel scrap	125	283	27,271	79,173	156	1,009	15,478	—	465,971	554	221	1	**590,242**

RAW STEEL PRODUCTION

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

Table 24

Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

	Open Hearth			Basic Oxygen Process			Electric			
Year	Carbon	Alloy	Total	Carbon	Alloy	Total	Carbon	Alloy	Stainless	Total
1987	2,652	14	2,666	48,536	3,960	52,496	26,788	5,173	2,028	33,989
1986	3,170	160	3,330	44,366	3,520	47,885	23,877	4,825	1,689	30,390
1985	6,005	423	6,428	47,688	4,197	51,885	23,006	5,257	1,683	29,946
1984	7,928	408	8,336	48,399	4,423	52,822	23,591	6,006	1,772	31,369
1983	5,703	248	5,951	48,115	3,934	52,050	19,965	4,900	1,750	26,615
1982	5,642	468	6,110	41,214	4,095	45,309	17,287	4,635	1,235	23,158
1981	12,195	1,257	13,452	65,701	7,530	73,231	23,566	8,836	1,743	34,145
1980	11,844	1,210	13,054	60,532	7,083	67,615	22,313	7,152	1,701	31,166
1979	17,200	1,958	19,158	75,334	7,922	83,256	23,692	8,128	2,107	33,927
1978	19,026	2,284	21,310	75,053	8,431	83,484	22,837	7,446	1,954	32,237

Table 24 *(continued)*

Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

	Total All Grades				Per Cent of Total						Production by Type of Cast (Thousands of net tons)		
					By Grade			By Type of Furnace					
	Carbon	Alloy	Stainless	Total	Carbon	Alloy	Stain-less	OH	BOP	Elec-tric	Ingots	Cont. Cast	Steel Cast
1987	77,976	9,147	2,028	89,151	87.5	10.2	2.3	3.0	58.9	38.1	35,802	53,284	65
1986	71,413	8,505	1,689	81,606	87.5	10.4	2.1	4.1	58.7	37.2	36,487	45,064	55
1985	76,699	9,877	1,683	88,259	86.9	11.2	1.9	7.3	58.8	33.9	49,035	39,161	63
1984	79,918	10,838	1,772	92,528	86.4	11.7	1.9	9.0	57.1	33.9	55,787	36,669	74
1983	73,783	9,082	1,750	84,615	87.2	10.7	2.1	7.0	61.5	31.5	57,385	27,174	56
1982	64,143	9,198	1,235	74,577	86.0	12.3	1.7	8.2	60.7	31.1	52,875	21,628	74
1981	101,462	17,623	1,743	120,828	84.0	14.6	1.4	11.1	60.6	28.3	94,516	26,138	173
1980	94,689	15,445	1,701	111,835	84.7	13.8	1.5	11.7	60.4	27.9	88,937	22,720	178
1979	116,226	18,008	2,107	136,341	85.3	13.2	1.5	14.0	61.1	24.9	113,084	23,043	215
1978	116,916	18,161	1,954	137,031	85.3	13.3	1.4	15.6	60.9	23.5	115,984	20,837	210

Table 25

Raw Steel Production by States

(Thousands of net tons)

States	1987	1986	1985	1984	1983
Pennsylvania	11,[illegible]9	9,492	12,034	14,372	13,000
R.I., Conn., N.J., N.Y., Del., Md.	5,127	5,130	5,066	5,649	5,290
Va., W. Va., Ga., Fla., N.C., S.C., La.	7,056	6,641	6,301	6,320	5,277
Ala., Tenn., Ky., Miss., Ark.	5,506	5,333	6,031	4,914	3,311
Ohio	16,267	14,522	14,094	15,438	14,586
Indiana	19,290	16,837	19,687	19,793	20,202
Illinois	7,141	6,414	6,479	6,504	5,410
Michigan	7,699	7,475	7,297	7,754	7,262
Texas	3,668	3,739	4,656	4,790	3,846
Minn., Mo., Okla., Nebr., Iowa	2,695	2,445	2,104	2,416	2,137
Ariz., Col., Utah, Wash., Ore., Ca., Hawaii	3,093	3,580	4,510	4,578	4,293
Total	**89,151**	**81,606**	**88,259**	**92,528**	**84,615**

Table 26

Monthly and Quarterly Raw Steel Production and Capability Utilization

(Thousands of net tons)

Periods	1987 Net Tons	1987 Capability Utilization* %	1986 Net Tons	1986 Capability Utilization* %	1985 Net Tons	1985 Capability Utilization* %	1984 Net Tons	1984 Capability Utilization* %	1983 Net Tons	1983 Capability Utilization* %
January	6,248	65.5	7,666	69.4	6,984	60.9	7,970	69.6	5,570	43.4
February	5,992	69.5	7,171	71.8	6,851	66.1	8,142	76.0	5,676	49.0
March	7,375	77.3	7,947	71.9	8,269	72.1	9,056	79.1	7,127	55.5
1st Quarter	19,619	70.8	22,808	71.5	22,083	66.3	25,057	74.6	18,382	49.3
April	7,402	80.3	7,787	73.5	7,872	71.6	8,997	80.8	7,292	58.9
May	7,641	80.2	7,616	69.5	7,830	68.9	9,174	79.8	7,412	57.9
June	7,349	79.7	6,730	63.5	7,292	66.3	7,945	71.4	6,993	56.5
2nd Quarter	22,391	80.1	22,133	68.8	22,993	68.9	26,116	77.4	21,726	57.8
First 6 months	41,933	75.3	44,966	70.0	45,110	67.7	51,354	76.2	40,109	53.6
July	7,324	77.3	6,352	59.2	7,010	62.1	7,460	65.3	6,921	54.3
August	7,494	79.1	5,668	52.8	7,130	63.2	6,915	60.5	7,020	55.1
September	7,694	83.9	5,644	54.3	6,924	63.4	6,378	57.7	7,134	57.8
3rd Quarter	22,512	80.1	17,665	55.4	21,064	62.9	20,752	61.2	21,076	55.7
9 months	64,587	77.1	62,603	65.1	66,164	66.1	72,054	71.1	61,386	54.5
October	8,073	84.4	6,087	56.8	7,351	65.2	6,703	58.4	7,692	60.2
November	7,882	85.2	5,860	56.5	7,051	64.7	6,422	57.8	7,263	58.7
December	7,916	82.8	5,877	54.9	6,728	59.7	6,013	52.4	6,991	54.7
4th Quarter	23,871	84.1	17,824	56.1	21,130	63.2	19,137	56.2	21,946	57.9
Second 6 Months	46,383	82.1	35,489	55.8	42,193	63.0	39,890	58.7	43,022	56.8
Year †	**89,151**	**79.5**	**81,606**	**63.8**	**88,259**	**66.1**	**92,528**	**68.4**	**84,615**	**56.2**

*Raw steel production capability varies in each calendar quarter and aggregated 150.6, 135.3, 133.6, 127.9 and 112.2 million net tons for the full years 1983, 1984, 1985, 1986 and 1987 respectively.

†Revised totals include adjustments not shown in monthly figures.

BASIC MATERIALS USED IN THE PRODUCTION OF IRON AND STEEL PRODUCTS

Table 27

Pig Iron Production, Consumption and Sales

(Thousands of Net tons)

Year	Total Blast Furnace Production	Consumption		Outside Sales
		Steelmaking	Other than Steelmaking	
1987	48,410	47,413	315	668
1986	43,952	43,312	357	283
1985	50,446	49,547	619	435
1984	51,904	45,282	1,499	792
1983	48,706	45,783	868	658
1982	43,309	42,013	777	568
1981	73,570	70,858	3,055	1,228
1980	68,721	66,111	2,794	1,206
1979	87,003	83,307	3,984	1,855
1978	87,679	83,571	4,148	2,099

Table 28

Imports of Iron Ore By Countries of Origin

(Thousands of gross tons)

Country	1987[P]	1986	1985	1984	1983
Brazil	3,640	3,693	2,540	2,542	1,276
Canada	7,826	8,651	8,557	11,161	8,832
Liberia	979	1,420	2,128	1,745	1,732
Venezuela	2,598	2,392	2,283	1,588	1,333
Other	1,557	593	457	124	73
Total	**16,601**	**16,749**	**15,965**	**17,160**	**13,246**

Source: Bureau of Mines

Table 29

*Imports for Consumption of Manganese Ore by Countries of Origin (35 Percent or More Mn)**

(MN content—Net tons)

Country	1987	1986	1985	1984	1983
Australia	48,747	35,539	43,104	21,005	15,118
Brazil	29,673	44,561	59,816	34,748	39,112
Gabon	96,541	131,874	64,093	66,135	85,509
Mexico	3,712	14,770	23,222	16,428	25,598
Republic of South Africa	...	13,994	...	17,286	12,703
Other Countries	31	3,515	55	40	20
Total	**178,703**	**244,252**	**190,290**	**155,642**	**178,060**

*Comprises ore received during the year for immediate consumption plus material withdrawn from bonded warehouses; excludes imports for manufacture in bond and export.

Data may not add due to rounding.

Source: Bureau of Mines, Department of Interior.

Table 30

Consumption of Coal

(Thousands of net tons)

Year	In Production of		Other Purposes	Total
	Coke	Steam*		
1987	30,578	1,704	256	32,538
1986	28,836	2,206	240	31,282
1985	34,266	2,288	207	36,761
1984	35,815	2,368	212	38,395
1983	30,549	2,280	153	32,982

*Includes coal consumed in generating electric power.

Table 31

Consumption of Fluxes in Steelmaking

(Thousands of net tons)

Use	Fluorspar	Limestone	Lime	Other Fluxes	Total
1987					
In steelmaking furnaces:					
Open hearth	8	165	15	122	310
Basic oxygen process	74	598	3,381	532	4,585
Electric	48	115	1,000	164	1,327
Total	**130**	**878**	**4,396**	**818**	**6,222**
1986	146	809	3,925	845	5,725
1985	388	760	4,611	778	6,537
1984	250	920	4,158	793	6,121
1983	194	730	4,336	652	5,912

Table 32

Production, Receipts, Consumption and Shipments of Coke

(Thousands of net tons)

	1987	1986	1985	1984	1983
Production:					
Metallurgical	22,164	20,527	23,708	25,271	22,466
Other Coke	305	184	240	386	244
Total Production	22,469	20,711	23,948	25,657	22,710
Receipts, incl. imports	7,261	4,005	5,009	5,163	4,161
Total Production and Receipts	**29,730**	**24,716**	**28,957**	**30,820**	**26,871**
Consumption:					
Blast furnaces	25,476	22,332	25,624	27,394	26,268
Foundries & Other	86	256	372	192	147
Total Consumption	25,562	22,588	25,996	27,586	26,415
Shipments to outside companies	3,189	955	2,012	2,280	3,038
Total Consumption and Shipments	**28,751**	**23,543**	**28,008**	**29,866**	**29,453**

Table 33

Consumption of Ore and Agglomerated Products

(Thousands of net tons)

	1987	1986	1985	1984	1983
Consumed In:					
Blast Furnaces:					
Natural Ore	2,972	2,087	3,201	N.A.	N.A.
Pellets	54,564	48,072	56,987	58,749	54,297
Sinter, briquettes, nodules and other	15,895	14,574	17,838	18,907	18,327
Total	**73,431**	**64,733**	**78,026**	**77,656**	**72,624**
Steelmaking Furnaces—					
Natural Ore	136	72	99	N.A.	N.A.
Pellets	48	34	68	56	45
Sinter, briquettes, nodules and other	46	28	90	37	14
Total	**230**	**134**	**257**	**93**	**59**
Total Consumption	**73,661**	**64,867**	**78,283**	**77,749**	**72,683**

Table 34

Scrap Consumption by Grade

(Thousands of net tons)

	1987[P]	1986[R]	1985	1984	1983
Carbon steel:					
Low phosphorous plate and punching	340	361	336	324	318
Cut structurals and plate	1,299	1,351	1,523	1,375	1,433
No. 1 heavy melting steel	14,378	14,525	16,941	17,091	15,871
No. 2 heavy melting steel	3,822	3,522	3,604	2,665	2,674
No. 1 and electric furnace bundles	6,683	6,909	7,072	8,111	7,648
No. 2 and all other bundles	889	881	1,105	1,060	1,003
Turnings and borings	951	1,014	1,069	954	844
Slag scrap (Fe content)	2,415	2,147	2,815	3,276	3,072
Shredded or fragmentized	4,872	4,259	4,043	3,134	2,280
No. 1 busheling	2,111	1,576	1,466	1,408	1,299
All other carbon steel scrap	8,891	8,797	8,468	7,415	7,442
Total Carbon Steel	46,651	45,342	48,442	46,813	43,884
Stainless steel	1,112	989	1,000	1,009	973
Alloy steel (excl. stainless)	964	1,146	1,256	1,315	1,131
Iron scrap	995	1,085	1,443	1,594	1,784
Other grades or types of scrap	1,403	1,101	1,059	1,055	1,225
Total scrap	**51,123**	**49,662**	**53,201**	**51,786**	**48,996**

Source: Bureau of Mines.
Data may not add to totals due to rounding.

Table 35

Consumption of Scrap and Pig Iron By Types of Furnaces

(Thousands of net tons)

Year	Type of Furnace	Consumed			Scrap Stocks on Hand Year End
		Scrap	Pig Iron	Total	
1987[P]	Open hearth	992	1,057	2,049	
	Basic oxygen process	15,320	47,525	62,845	
	Electric	32,009	30	32,039	
	Cupola	17	117	134	
	Direct castings	—	253	253	
	Blast	2,401	—	2,401	
	Other (Incl. air furnace)	432	40	472	
	TOTAL	**51,171**	**49,022**	**100,193**	**3,827**
1986[R]	Open hearth	1,556	2,325	3,881	
	Basic oxygen process	14,753	41,582	56,335	
	Electric	31,166	3	31,169	
	Cupola	34	80	114	
	Direct castings	—	297	297	
	Blast	1,935	—	1,935	
	Other (Incl. air furnace)	218	37	255	
	TOTAL	**49,662**	**44,324**	**93,986**	**3,355**
1985	Open hearth	2,411	4,737	7,148	
	Basic oxygen process	15,339	44,515	59,854	
	Electric	32,252	5	32,257	
	Cupola	20	73	93	
	Direct castings	—	468	468	
	Blast	2,481	—	2,481	
	Other (Incl. air furnace)	698	37	735	
	TOTAL	**53,201**	**49,833**	**103,034**	**3,964**
1984	Open hearth	3,724	5,718	9,442	
	Basic oxygen process	16,447	45,551	61,998	
	Electric	28,244	22	28,266	
	Cupola	50	120	170	
	Direct castings	—	482	482	
	Blast	2,724	—	2,724	
	Other (Incl. air furnace)	597	76	673	
	TOTAL	**51,786**	**51,969**	**103,755**	**4,448**
1983	Open hearth	3,275	3,918	7,193	
	Basic oxygen process	16,219	44,330	60,549	
	Electric	25,786	52	25,838	
	Cupola	6	100	106	
	Direct castings	—	519	519	
	Blast	3,125	—	3,125	
	Other (Incl. air furnace)	585	72	657	
	TOTAL	**48,996**	**48,991**	**97,987**	**4,953**

Source: Bureau of Mines.

Table 36

Consumption of Electric Power

(Millions of kilowatt hours)

Year	Generated	Purchased	Total
1987	6,989	45,168	52,157
1986	7,910	41,254	49,164
1985	8,820	44,060	52,880
1984	6,763	49,314	56,077
1983	5,922	36,473	42,395

Table 37

Consumption of Oxygen

(Millions of cubic feet in gaseous form)

	1987	1986	1985	1984	1983
Purchased	170,103	136,881	146,148	162,388	145,325
Produced (a)	15,487	16,744	17,341	14,049	12,415
Total	185,590	153,625	163,489	176,437	157,740
Used in:					
Conditioning	5,330	5,407	7,212	9,020	9,064
Scrap preparation	865	685	733	1,013	930
Other burning and welding	4,477	3,182	4,292	4,542	3,146
Blast furnaces	31,953	22,077	18,031	24,271	16,223
Steelmaking:					
Open hearth	3,867	5,633	10,795	15,869	8,566
Basic oxygen process	112,594	94,168	100,721	101,921	99,608
Electric	18,875	16,226	14,702	12,323	9,682
Total Steelmaking	135,336	116,027	126,218	130,113	117,856
Maintenance and construction	388	311	357	609	1,098
All other	7,241	5,936	6,646	6,869	9,423
Total	**185,590**	**153,625**	**163,489**	**176,437**	**157,740**

(a) Produced on companies owned or leased facilities.
NOTE: Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

Table 38

Consumption of Fuels

Year	Purpose					
	Blast Furnace Area		Steel Melting Furnaces	Heating and Annealing Furnaces	Other	Total
	Blast Furnaces	Other Uses*				
			Fuel Oil (Thousand of gallons)			
1987	142,648	3,380	30,182	34,616	50,203	**261,029**
1986	149,364	3,975	23,081	52,687	76,668	**305,775**
1985	99,674	3,583	48,390	29,125	52,625	**233,397**
1984	131,437	6,982	54,339	56,379	72,763	**321,900**
1983	123,709	16,212	64,081	84,436	142,637	**431,075**

* Includes coke oven underfiring.

			Tar and Pitch (Thousands of gallons)			
1987	4,384	...	925	...	...	**5,309**
1986	5,248	...	...	...	...	**5,248**
1985	7,960	...	7,098	...	...	**15,058**
1984	8,952	...	15,690	...	...	**24,642**
1983	7,243	...	11,831	...	969	**20,043**

Table 38 *(continued)*
Consumption of Fuels

Year	Purpose					
	Blast Furnace Area					
	Blast Furnaces	Other Uses*	Steel Melting Furnaces	Heating and Annealing Furnaces	Other	Total
	Natural Gas (Millions of cubic feet—based on 1,000 B.T.U. per cubic foot)					
1987	37,583	8,165	17,395	208,651	124,642	**396,436**
1986	23,650	5,991	15,182	175,295	88,793	**308,911**
1985	25,621	6,812	18,250	197,823	99,269	**347,775**
1984	29,235	10,542	20,688	228,082	102,676	**391,223**
1983	19,061	14,700	19,310	216,262	109,718	**379,051**
	Coke Oven Gas (Millions of cubic feet—based on 500 B.T.U. per cubic foot)					
1987	16,768	143,861	2,211	97,122	90,817	**350,779**
1986	16,705	131,828	1,896	86,945	74,741	**312,115**
1985	18,687	151,437	485	100,892	101,699	**373,200**
1984	17,185	163,465	1,897	105,554	105,461	**393,562**
1983	8,463	150,466	28	103,950	75,972	**338,879**
	Blast Furnace Gas (Millions of cubic feet—based on 95 B.T.U. per cubic foot)					
1987	709,354	351,107	...	22,719	1,215,500	**2,298,680**
1986	585,703	334,935	887	30,787	902,156	**1,854,468**
1985	815,434	610,696	1,298	37,827	877,346	**2,342,601**
1984	873,752	674,791	1,386	41,243	793,539	**2,384,711**
1983	844,815	602,573	1,386	25,139	720,452	**2,194,365**

* Includes 110,782 coke oven underfiring in 1983, 130,211 in 1984, 117,074 in 1985, 106,669 in 1986 and 125,681 in 1987

* Includes coke oven underfiring.

CANADIAN STATISTICS

Table 39

Income, Dividends, Return on Sales and Stockholders' Equity

(Millions of Canadian dollars)

(Reported by companies comprising 76% of Canadian Raw Steel Production)

	1987[P]	1986	1985	1984	1983
Statement of Income:					
Revenues:					
Sales (Net billing value of products shipped and other services)	$6,235.9	$5,642.4	$5,909.4	$5,723.1	$4,691.3
Interest, dividends and other income	50.6	75.0	70.1	49.1	11.6
Total Revenue	**6,286.5**	**5,717.4**	**5,979.5**	**5,772.2**	**4,702.8**
Costs Applied to Billings and Other Services:					
Employment costs	1,439.7	1,355.0	1,468.8	1,431.1	1,259.3
Materials, supplies, freight and other services,etc.	3,951.7	3,691.6	3,691.6	3,591.3	3,058.5
Depreciation, depletion and amortization	294.5	275.5	264.9	268.1	245.5
Interest and other financial costs	175.3	176.9	165.0	171.6	172.6
Taxes other than income	26.4	27.1	25.2	22.3	21.6
Taxes on income	133.3	61.9	111.6	89.0	(41.8)
Loss or (gain) on discontinued operations and sales of assets (a)	4.6	...	...	...	...
Unusual items	...	...	...	...	.4
Total Costs	**6,025.5**	**5,588.1**	**5,727.1**	**5,573.4**	**4,716.1**
Extraordinary & other items net of taxes	5.0	(77.6)	(2.2)	(51.6)	...
Net Income	**$ 266.0**	**$ 51.7**	**$ 250.2**	**$147.2**	**$ (13.3)**
Percent Return on Sales	4.3	0.9	4.2	2.6	(0.3)
Percent Return on Stockholders' Equity (b)	7.3	1.4	6.8	4.1	(0.4)
Cash Dividends Declared	$ 169.1	$ 184.0	$ 182.0	$ 155.7	$ 140.8
Employees	40,800	39,900	43,800	44,400	42,300

(a) Includes only pretax (gains) or losses which were seperately disclosed in annual financial statements to stockholders.
(b) Based on stockholders' equity as of Dec. 31 of the prior year.
Totals do not necessarily add due to rounding.

Table 40

Balance Sheet

(Millions of Canadian dollars)

(Reported by companies comprising 76% of Canadian Raw Steel Production)

Assets	1987[P]	1986	1985	1984	1983
Current Assets:					
Cash and marketable securities	$ 311.6	$ 516.4	$ 755.1	$ 355.4	$ 458.3
Receivables, less allowances	888.6	787.1	832.6	779.5	691.2
Inventories	1,550.2	1,618.6	1,807.0	1,778.5	1,528.5
Other Current Assets	26.1	14.1	18.0	11.5	13.6
Total Current Assets	**2,776.5**	**2,936.1**	**3,412.7**	**2,924.9**	**2,691.6**
Long term receivables and other investments	358.8	190.6	292.5	280.4	307.8
Fixed assets:					
Property, plant and equipment	8,472.2	7,995.1	7,264.4	6,802.1	6,733.2
Less—Depreciation, depletion and amortization	3,829.4	3,631.4	3,301.7	3,046.8	2,801.4
Net Fixed Assets	4,642.8	4,363.7	3,962.7	3,755.3	3,931.8
Other assets	51.0	81.9	105.4	81.3	13.4
Total Assets	**$7,829.1**	**$7,572.3**	**$7,773.3**	**$7,041.8**	**$6,944.6**
Liabilities and Stockholders' Equity					
Current Liabilities:					
Accounts payable	$ 888.8	$ 806.2	$ 862.4	$ 712.7	$ 677.6
Accrued taxes, including income taxes	60.2	83.3	69.9	128.2	97.6
Long-term debt maturing within one year	38.8	66.7	46.1	43.3	33.7
All other current liabilities	35.4	37.5	92.3	34.1	181.8
Total Current Liabilities	**1,023.2**	**993.7**	**1,070.8**	**918.3**	**990.7**
Long-term debt less amount maturing within one year	1,772.8	1,586.6	1,666.7	1,526.1	1,447.9
Other long-term liabilities and reserves	1,138.0	931.8	886.4	832.6	860.7
Redeemable preferred stock	341.4	421.6	421.8	71.6	73.8
Stockholders' Equity:					
Preferred stock	514.2	713.6	718.2	801.8	806.4
Common stock	827.2	795.4	756.0	690.1	549.8
Income reinvested in business	2,212.3	2,129.6	2,253.5	2,201.3	2,215.3
Total Stockholders' Equity	**$3,553.7**	**$3,638.6**	**$3,727.6**	**$3,693.2**	**$3,571.5**
Total Liabilities and Stockholders' Equity	**$7,829.1**	**$7,572.3**	**$7,773.3**	**$7,041.8**	**$6,944.6**

Table 41

Production of Pig Iron and Ferroalloys

(Net tons)

Year	Pig Iron	Ferroalloys	Total
1987	10,713,572	N/A	10,713,572
1986	10,194,655	N/A	10,194,655
1985	10,654,200	N/A	10,654,200
1984	10,629,765	221,800	10,851,565
1983	9,442,986	195,700	9,638,686
1982	8,818,564	203,378	9,021,942
1981	10,740,258	310,685	11,050,943
1980	12,007,067	318,901	12,325,968
1979	12,021,433	192,462	12,213,895
1978	11,395,988	265,042	11,661,030

Source: Statistics Canada

Table 42

Raw Steel Production

(Net tons)

Year	Open Hearth	Basic Oxygen Process	Electric	Total	Steel for Castings*	Alloy Steel Incl. in Total	Continuous Cast Incl. in Total
1987	**	11,262,068	4,855,940	16,118,008	126,639	N/A	7,953,948
1986	**	10,955,796	4,462,705	15,418,501	103,432	N/A	7,116,551
1985	**	11,633,276	4,385,334	16,018,610	116,293	1,304,391	7,037,419
1984	**	11,832,642	4,225,487	16,058,129	144,804	1,565,742	6,225,060
1983	1,014,966	9,364,629	3,650,893	14,030,488	114,752	1,023,272	5,292,981
1982	1,814,266	7,989,644	3,161,669	12,965,579	120,257	1,137,866	4,293,022
1981	2,203,771	9,567,252	4,363,641	16,134,664	191,747	1,829,032	5,258,275
1980	3,583,430	9,669,217	4,275,473	17,528,120	239,495***	2,231,062	4,489,581
1979	3,632,219	10,048,152	4,042,636	17,723,007	246,203	2,458,253	3,518,894
1978	3,338,969	9,274,452	3,809,307	16,422,728	187,936	2,039,373	3,319,119

*Includes only that portion of the steel for castings which was produced in foundries operated by companies producing steel ingots.
**Included in Basic Oxygen.
***Included in total 1980 and prior years.

Source: Statistics Canada.

Table 43

Net Shipments of Rolled Steel Products

(Net tons)

Products	1987	1986	1985	1984	1983
Ingots and semifinished shapes	388,123	297,654	406,540	594,400	824,174
Rails and heavy structural shapes	678,843	605,989	586,312	573,348	505,527
Wire rods	1,281,499	1,255,526	1,154,729	1,199,146	1,129,709
Structural shapes intermediate	405,817	362,852	352,425	324,346	287,179
Bar sized shapes	236,446	208,597	195,410	181,368	140,442
Concrete reinforcing bars	723,556	603,881	622,082	523,279	580,257
Other hot rolled bars	1,316,790	1,203,713	1,253,544	1,208,846	937,983
Tie plates and track material	24,243	42,264	54,163	75,271	55,080
Plates (Incl. plates for pipe & tube)	1,992,122	1,546,100	1,627,336	1,635,150	1,118,416
Hot rolled sheets & strip	3,246,182	3,130,728	3,020,767	3,047,059	2,328,771
Cold finished bars	157,802	144,003	130,642	135,967	99,227
Cold reduced sheets and strip, cold rolled other	1,578,544	1,560,742	1,559,933	1,521,493	1,396,012
Tin Plate & T.F.S.	539,035	521,592	554,255	539,990	570,873
Galvanized sheets	1,483,977	1,371,207	1,336,334	1,182,101	1,046,692
Total net shipments	**14,052,979**	**12,854,848**	**12,854,472**	**12,741,764**	**11,020,342**

Table 43 *(continued)*

Net Shipments of Rolled Steel Products

(Net tons)

Products	1982	1981	1980	1979	1978
Ingots and semifinished shapes	578,736	1,098,708	897,005	551,343	671,919
Rails and heavy structural shapes*	454,257	925,608	862,691	380,919	290,724
Wire rods	989,851	1,088,166	1,363,294	1,257,889	1,100,126
Structural shapes intermediate**	238,106	391,404	458,798	919,602	891,647
Bar sized shapes	127,372	182,561	177,693	230,484	215,002
Concrete reinforcing bars	598,187	750,665	843,294	584,086	633,338
Other hot rolled bars	830,121	1,126,657	1,105,299	1,343,722	1,260,283
Tie plates and track material	63,033	74,934	87,256	79,021	70,312
Plates (Incl. plates for pipe & tube)	1,237,498	1,987,162	1,954,672	1,874,681	1,636,158
Hot rolled sheets & strip	2,203,371	2,506,978	2,557,134	2,818,510	2,728,914
Cold finished bars	75,258	104,763	108,224	130,704	108,942
Cold reduced sheets and strip, cold rolled other***	1,339,205	1,941,128	2,037,874	2,134,726	2,107,878
Tin Plate & T.F.S.	545,214	(Incl. in Cold Reduced Sheets & Strip)			
Galvanized sheets	1,025,365	1,047,999	1,099,256	1,175,237	1,173,534
Total net shipments	**10,305,574**	**13,226,733**	**13,552,490**	**13,480,924**	**12,888,777**

Source: Statistics Canada

*Prior to 1980, included only rails.

**Prior to 1980, included structural shapes and piling.

***Prior to 1982, included tin plate and T.F.S.

Table 44

Imports of Iron and Steel Products

(Net tons)

Products	1987	1986	1985	1984	1983
Steel Mill Products:					
Ingots, blooms, billets, etc	799,904	280,685	159,473	203,074	40,962
Wire rods	275,971	315,050	246,062	255,823	151,243
Structural shapes (plain 3" and over)	208,865	164,695	173,072	206,972	129,600
Sheet piling	3,970	2,181	9,458	8,625	10,570
Plates	224,489	184,976	255,052	208,856	151,775
Rails and track accessories	75,230	92,499	79,721	37,288	22,109
Concrete reinforcing bars	47,112	9,545	13,264	6,454	10,979
Bar shapes under 3"	58,853	52,109	70,652	48,274	35,632
Bars—Hot rolled—Carbon	88,210	62,355	56,613	77,683	58,068
—Alloy	32,269	35,918	57,994	85,033	71,526
—Cold finished	19,886	20,490	21,699	18,189	11,754
Pipe and tubing	310,550	275,231	500,712	344,557	238,641
Wire drawn	67,995	66,758	66,707	59,923	46,969
Barbed wire	1,227	1,564	3,820	3,345	1,858
Wire nails	19,282	17,821	11,784	16,940	15,372
Tin plate	3,308	4,972	588	2,384	2,425
Terne plate	11,094	17,296	18,807	20,228	20,332
Sheets—Hot rolled	203,751	194,229	426,326	159,203	143,322
—Cold rolled	248,130	281,579	232,142	197,975	120,439
Sheet & strip (Coated, incl. galvanized)	311,514	266,757	180,831	129,574	108,812
All other sheet and strip	33,546	30,557	40,807	30,806	27,019
Total Steel Mill Products	**3,045,158**	**2,377,257**	**2,625,584**	**2,121,206**	**1,419,407**
Other Steel Products:					
Steel castings and forgings	18,232	17,090	17,675	13,041	12,054
Bars and rods, fabricated	5,748	6,336	5,616	5,954	3,042
Plates, flanged and dished	1,755	1,694	1,906	1,643	1,804
Plates, sheets and strip for saws	2,359	2,276	3,015	3,830	2,969
Plates, fabricated	3,974	4,985	5,475	4,717	3,521
Sheet and strip, fabricated	16,403	18,615	12,498	10,127	7,916
Structural shapes, fabricated	8,320	9,156	3,183	2,972	3,029
Wire strand	6,612	6,488	8,854	6,963	5,648
Wire rope	20,615	23,003	19,611	16,039	15,283
Grinding balls	50,218	27,564	19,877	15,612	12,608
Total Other Steel Products	**134,236**	**117,207**	**97,710**	**80,898**	**67,874**
Total Steel Products	**3,179,392**	**2,494,474**	**2,723,294**	**2,202,104**	**1,487,281**
Iron Products and Ferroalloys:					
Pig iron	10,796	13,322	11,111	5,808	5,353
Sponge iron	1,736	1,783	2,662	3,195	2,082
Castings and forgings	35,214	29,663	22,192	34,772	29,502
Pipes and tubes, cast iron	11,963	2,674	1,224	3,821	1,030
Ferroalloys	122,788	96,094	87,403	109,896	78,394
Total Iron Products and Ferroalloys	**182,497**	**143,536**	**124,592**	**157,492**	**116,361**
Grand Total	**3,361,889**	**2,638,010**	**2,847,886**	**2,359,596**	**1,603,642**

Source: Statistics Canada

Table 45

Exports of Iron and Steel Products

(Net tons)

Products	1987	1986	1985	1984	1983
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	114,742	257,307	84,560	274,523	636,325
Wire rods	392,580	397,695	355,215	368,609	304,626
Structural shapes and piling	315,446	371,557	320,360	277,979	249,993
Plates	435,840	213,232	186,415	197,132	153,931
Rail and track accessories	190,204	75,001	50,139	72,632	20,545
Bars—Hot rolled	388,296	329,567	326,424	284,114	303,796
—Cold finished	49,062	46,181	32,244	32,299	19,406
Pipe and tubing	532,858	397,387	477,510	445,167	251,438
Wire, plain and coated	214,753	212,956	180,928	183,435	141,898
Wire nails	83,969	106,867	86,118	68,337	76,151
Sheets and strip	1,214,529	1,136,379	1,157,096	882,997	564,687
Sheets and strip—Galvanized	277,826	270,591	277,731	316,111	230,400
Total Steel Mill Products	**4,210,105**	**3,814,720**	**3,534,740**	**3,403,335**	**2,955,396**
Other Steel Products:					
Bars and rods, fabricated	15,131	25,025	20,403	14,369	9,908
Grinding balls	801	38	31	1,400	112
Castings and forgings	36,504	41,213	45,624	56,957	41,946
Wire rope and strand	7,276	5,922	9,306	7,357	5,245
Total Other Steel Products	**61,712**	**72,198**	**75,364**	**80,083**	**57,211**
Total Steel Products	**4,271,817**	**3,886,918**	**3,610,104**	**3,483,418**	**3,012,607**
Iron Products and Ferroalloys:					
Pig iron	492,680	572,720	632,850	432,256	383,913
Sponge iron	57,270	40,786	40,091	50,192	40,717
Iron castings	114,297	91,288	88,763	96,411	82,152
Pipe and tubes, cast iron	3,763	1,330	2,153	8,604	14,874
Ferroalloys	67,547	112,238	95,063	54,456	57,903
Total Iron Products and Ferroalloys	**735,557**	**818,362**	**858,920**	**641,919**	**579,559**
Grand Total	**5,007,374**	**4,705,280**	**4,469,024**	**4,125,337**	**3,592,166**

Source: Statistics Canada

Table 46

Consumption of Coal

(Thousands of net tons)

Year	In production of Coke	Total
1987	6,854	6,854
1986	6,672	6,674
1985	6,897	6,901
1984	7,212	7,214
1983	6,228	6,229
1982	5,500	5,504
1981	6,933	6,937
1980	7,624	7,627
1979	7,688	7,688
1978	7,528	7,532

Table 47

Consumption of Coke

(Thousands of net tons)

Year	In Blast Furnaces*	Total
1987	4,809	4,809
1986	4,578	4,585
1985	5,009	5,011
1984	5,069	5,071
1983	4,635	4,636
1982	3,693	3,695
1981	4,283	4,285
1980	5,123	5,126
1979	4,859	4,863
1978	4,906	4,908

*Blast furnaces producing pig iron and ferroalloys

Table 48

Consumption of Fuel Oil

(Thousands of gallons)

Year	In Melting Furnaces	In Heating and Annealing Furnaces	Other Purposes	Total
1987	45,152	11,563	13,949	**70,664**
1986	36,763	11,096	13,276	**61,135**
1985	34,044	15,037	10,901	**59,982**
1984	49,668	19,555	6,339	**75,562**
1983	55,577	19,329	5,802	**80,708**
1982	73,801	20,227	10,793	**104,821**
1981	148,967	17,692	7,421	**174,080**
1980	145,451	21,088	17,030	**183,569**
1979	162,770	25,779	5,647	**194,196**
1978	191,621	30,317	15,145	**237,083**

Table 49

Consumption of Fluxes in Steelmaking Furnaces

(Thousands of net tons)

Year	Fluorspar	Limestone	Lime	Other Fluxes	Total
1987	20	57	700	217	**994**
1986	17	57	805	197	**1,076**
1985	21	73	763	229	**1,086**
1984	28	75	767	179	**1,049**
1983	24	67	748	159	**998**
1982	26	88	678	132	**924**
1981	29	89	786	122	**1,026**
1980	38	112	764	121	**1,035**
1979	33	130	821	131	**1,115**
1978	37	107	801	147	**1,092**

Table 50

Consumption of Oxygen

(Millions of cubic feet)

	1987	1986	1985	1984	1983
Consumption By Uses:					
Conditioning	1,323	1,599	1,613	1,470	1,383
Scrap preparation	301	292	331	346	348
Other burning and welding	208	154	176	184	160
Blast furnaces	1,790	1,695	1,243	1,137	1,086
Steelmaking:					
Open hearth	+	+	+	2,374	1,367
Basic oxygen process & Electric	22,328	21,791	22,752	19,915	17,849
Total steelmaking	22,328	21,791	22,752	22,289	19,216
Maintenance & construction	70	54	31	29	26
All other	1,787	1,074	916	1,174	1,532
Total	**27,807**	**26,659**	**27,062**	**26,629**	**23,751**

+ Included with Basic Oxygen and Electric.

Table 51

Consumption of Pig Iron

(Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking	Total
1987	9,843	48	9,891
1986	9,374	41	9,415
1985	9,882	64	9,946
1984	9,975	223	10,198
1983	8,801	169	8,970

WORLD STATISTICS

The following tables covering production of foreign countries were compiled from reports issued by Statistics Canada, and the International Iron and Steel Institute.

Table 52

World Production of Pig Iron by Countries

(Thousands of net tons)

Countries	1987[P]		1986[R]		1985		1984		1983	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States	48,137	8.7	43,952	8.0	50,446	9.2	51,904	9.6	48,706	9.6
Canada	10,714	1.9	10,195	1.9	10,654	1.9	10,630	2.0	9,443	1.9
Total	**58,851**	**10.6**	**54,147**	**9.9**	**61,100**	**11.1**	**62,534**	**11.6**	**58,149**	**11.5**
Latin America										
Argentina	1,950		1,807		1,443		984		1,006	
Brazil	23,569		22,738		20,901		18,993		14,269	
Chile	680		653		634		655		595	
Columbia	359		352		271		298		295	
Mexico	4,076		4,109		3,891		4,265		3,898	
Peru	257		238		180				125	
Venezuela	519		541		485		358		186	
Total	**31,410**	**5.6**	**30,438**	**5.6**	**27,805**	**5.1**	**25,553**	**4.7**	**20,375**	**4.0**
Europe										
Western Europe										
EEC										
Belgium	9,082		8,869		9,642		9,933		8,655	
Luxembourg	2,541		2,921		3,036		3,051		2,553	
France	14,825		15,412		16,608		16,214		14,881	
Italy	12,535		13,048		12,851		12,821		11,368	
Netherlands	5,043		5,101		5,312		5,430		4,130	
West Germany	30,992		31,518		34,757		33,293		29,319	
United Kingdom	13,246		10,676		11,444		10,458		10,446	
Greece									138	
Total EEC	94,156	16.9	93,424	17.1	93,650	17.0	91,200	16.9	81,690	16.1
Other Western Europe										
Austria	3,804		3,692		4,083		4,128		3,660	
Finland	2,274		2,180		2,095		2,242		2,092	
Norway	408		622		668		605		657	
Portugal**	584		579		572		522		391	
Spain**	5,308		5,300		6,037		5,884		5,973	
Sweden	2,551		2,684		2,672		2,440		2,217	
Switzerland	77		87		73		60		11	
Turkey	4,484		4,115		3,520		3,199		2,997	
Yugoslavia *	3,161		3,381		3,439		3,147		3,126	
Total Other Western Europe	16,759	3.0	16,761	3.0	23,159	4.2	22,227	4.1	21,124	4.2
Total Western Europe	**110,915**	**19.9**	**110,185**	**20.1**	**116,809**	**21.2**	**113,427**	**21.0**	**102,815**	**20.3**

* Communist Bloc

** 1986 and 1987 included in EEC total

Table 52 *(continued)*

World Production of Pig Iron by Countries

(Thousands of net tons)

Countries	1987[P]		1986[R]		1985		1984		1983	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria	1,806		1,769		1,887		1,745		1,802	
Czechoslovakia	10,582		10,552		10,540		10,539		10,434	
East Germany	3,252		3,005		2,842		2,601		2,493	
Hungary	2,205		2,272		2,317		2,310		2,270	
Poland	11,023		11,129		10,401		10,513		9,028	
Rumania	10,472		10,283		10,154		10,535		13,881	
U.S.S.R.	125,662		125,221		121,228		122,237		121,752	
Total Eastern Europe	**165,092**	**29.7**	**164,231**	**30.0**	**159,369**	**29.0**	**160,480**	**29.7**	**161,600**	**31.6**
Total Europe	**276,907**	**49.6**	**274,616**	**50.1**	**276,178**	**50.2**	**273,507**	**50.7**	**264,415**	**52.1**
Africa										
Zimbabwe	634		710		743		441		644	
South Africa, Republic of	6,963		6,365		5,553		6,097		5,748	
Algeria	1,433		1,543		1,213		1,213		1,213	
Tunisia	171		165		165		165		162	
Other	22		22		22		22		22	
Total	**9,223**	**1.7**	**8,805**	**1.6**	**7,695**	**1.4**	**7,938**	**1.5**	**7,789**	**1.5**
Middle East										
Iran	276		276		276		276		265	
United Arab Republic (Egypt)	1,047		1,047		1,047		1,060		716	
Total	**1,323**	**0.2**	**1,323**	**0.2**	**1,323**	**0.2**	**1,336**	**0.2**	**981**	**0.2**
Far East										
India	12,037		11,590		10,647		10,455		10,099	
Japan	80,929		82,288		88,811		88,626		80,397	
South Korea	12,188		9,924		9,737		9,659		8,845	
Taiwan	4,032		4,123		3,780		3,624		3,764	
Thailand	11		11		11		11		22	
Total	**109,197**	**19.6**	**107,936**	**19.7**	**113,155**	**20.6**	**112,377**	**20.8**	**103,127**	**20.3**
Far East										
(Communist Bloc)										
China	55,335		55,049		47,997		44,160		41,204	
North Korea	9,370		9,370		8,543		6,338		6,063	
Total	**64,705**	**11.6**	**64,419**	**11.7**	**56,540**	**10.3**	**50,498**	**9.4**	**47,267**	**9.3**
Oceania										
Australia	6,150	1.1	6,458	1.2	6,172	1.1	5,669	1.1	5,560	1.1
Total World	**556,666**	**100.0**	**547,938**	**100.0**	**550,000**	**100.0**	**540,012**	**100.0**	**507,663**	**100.0**

NOTE: Detail does not necessarily add to totals.
Source: United States—American Iron and Steel Institute; Canada—Statistics Canada; Other Countries—International Iron and Steel Institute.

Table 53 *(continued)*

World Production of Raw Steel by Countries

(Thousands of net tons)

Countries	1987[P] Tons	%	1986[R] Tons	%	1985 Tons	%	1984 Tons	%	1983 Tons	%
North America										
United States	89,151	11.0	81,606	10.3	88,259	11.1	92,528	11.8	84,615	11.6
Canada	16,118	2.0	15,419	2.0	16,019	2.0	16,058	2.1	14,030	1.9
Total	**105,269**	**13.0**	**97,025**	**12.3**	**104,278**	**13.1**	**108,586**	**13.9**	**98,645**	**13.5**
Latin America										
Argentina	3,974	...	3,566	...	3,247	...	2,918	...	3,243	...
Brazil	24,502	...	23,405	...	22,546	...	20,266	...	16,172	...
Chile	793	...	778	...	751	...	761	...	674	...
Columbia	777	...	697	...	579	...	553	...	510	...
Cuba *	468	...	459	...	441	...	373	...	331	...
Mexico	8,258	...	7,901	...	8,004	...	8,247	...	7,625	...
Peru	554	...	537	...	456	...	371	...	319	...
Venezuela	4,103	...	3,750	...	3,368	...	3,053	...	2,557	...
Others	632	...	558	...	353	...	366	...	407	...
Total	**44,061**	**5.4**	**41,651**	**5.3**	**39,745**	**5.0**	**36,908**	**4.7**	**31,838**	**4.4**
Europe										
Western Europe										
EEC										
Belgium-Luxembourg	14,467	...	14,791	...	16,124	...	16,851	...	14,826	...
Denmark	667	...	697	...	582	...	604	...	543	...
France	19,500	...	19,684	...	20,740	...	20,944	...	19,381	...
West Germany	39,956	...	40,933	...	44,640	...	43,418	...	39,384	...
Ireland	243	...	229	...	224	...	183	...	155	...
Italy	25,153	...	25,273	...	26,314	...	26,524	...	24,042	...
Netherlands	5,602	...	5,823	...	6,081	...	6,326	...	4,942	...
United Kingdom	19,208	...	16,231	...	17,330	...	16,668	...	16,519	...
Greece	1,000	...	1,113	...	1,086	...	990	...	957	...
Total EEC	**139,612**	**17.2**	**138,605**	**17.3**	**133,121**	**16.8**	**132,507**	**16.9**	**120,749**	**16.5**
Other Western Europe										
Austria	4,741	...	4,731	...	5,137	...	5,368	...	4,862	...
Finland	2,942	...	2,851	...	2,776	...	2,909	...	2,663	...
Norway	937	...	933	...	1,041	...	1,010	...	988	...
Portugal**	795	...	783	...	740	...	772	...	739	...
Spain**	13,021	...	13,098	...	15,689	...	14,878	...	14,340	...
Sweden	5,065	...	5,198	...	5,305	...	5,186	...	4,641	...
Switzerland	959	...	1,185	...	1,088	...	1,078	...	920	...
Turkey	7,769	...	6,534	...	5,456	...	4,773	...	4,227	...
Yugoslavia *	4,814	...	4,982	...	4,938	...	4,669	...	4,557	...
Total Other Western Europe	**27,227**	**3.3**	**26,414**	**3.3**	**42,170**	**5.3**	**40,643**	**5.2**	**37,937**	**5.2**
Total Western Europe	**166,839**	**20.5**	**165,019**	**20.9**	**175,291**	**22.1**	**173,150**	**22.1**	**158,686**	**21.7**

* Communist Bloc.

**1986 and 1987 Included in EEC total.

Table 53 *(continued)*

World Production of Raw Steel by Countries

(Thousands of net tons)

Countries	1987[P] Tons	%	1986[R] Tons	%	1985 Tons	%	1984 Tons	%	1983 Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria	3,307	...	3,194	...	3,225	...	3,172	...	3,114	...
Czechoslovakia	16,975	...	16,658	...	16,574	...	16,348	...	16,561	...
East Germany	9,039	...	8,782	...	8,655	...	8,348	...	7,958	...
Hungary	3,858	...	4,095	...	4,020	...	4,135	...	3,987	...
Poland	18,849	...	18,898	...	17,776	...	18,224	...	17,897	...
Rumania	16,535	...	15,736	...	15,206	...	15,914	...	13,881	...
U.S.S.R.	177,911	...	177,123	...	170,474	...	170,008	...	168,113	...
Total Eastern Europe	**246,474**	**30.3**	**244,486**	**31.0**	**235,930**	**29.8**	**236,149**	**30.2**	**231,511**	**31.7**
Total Europe	**413,313**	**50.8**	**409,505**	**51.9**	**411,221**	**51.9**	**409,299**	**52.3**	**390,197**	**53.4**
Africa										
Zimbabwe	658	...	743	...	806	...	466	...	713	...
Republic of South Africa	9,620	...	9,805	...	9,377	...	8,523	...	7,721	...
Others	2,036	...	2,046	...	1,211	...	1,114	...	1,235	...
Total	**12,314**	**1.5**	**12,594**	**1.6**	**11,394**	**1.4**	**10,103**	**1.3**	**9,669**	**1.3**
Middle East										
Egypt	1,764	...	1,102	...	1,047	...	1,268	...	937	...
Saudi Arabia	1,505	...	1,213	...	1,219	...	928	...	441	...
Iran	1,378	...	1,213	...	1,323	...	1,323	...	1,323	...
Others	891	...	901	...	918	...	849	...	829	...
Total	**5,538**	**0.7**	**4,429**	**0.6**	**4,507**	**0.5**	**4,368**	**0.6**	**3,530**	**0.5**
Asia										
India	14,438	...	13,445	...	12,724	...	11,628	...	11,284	...
Japan	108,591	...	108,329	...	116,049	...	116,387	...	107,109	...
South Korea	18,499	...	16,044	...	14,924	...	14,367	...	13,134	...
Taiwan	6,379	...	6,112	...	5,609	...	5,520	...	5,546	...
Others	4,841	...	4,802	...	4,196	...	3,252	...	2,706	...
Total	**152,748**	**18.8**	**148,732**	**18.9**	**153,502**	**19.4**	**151,154**	**19.3**	**139,779**	**19.1**
Asia										
(Communist Bloc)										
China	61,751	...	57,209	...	51,504	...	47,751	...	44,114	...
North Korea	10,472	...	10,130	...	9,259	...	7,165	...	6,724	...
Total	**72,223**	**8.9**	**67,339**	**8.5**	**60,763**	**7.7**	**54,916**	**7.0**	**50,838**	**6.9**
Oceania										
Australia	6,724	...	7,357	...	7,285	...	6,947	...	6,176	...
New Zealand	451	...	316	...	250	...	309	...	258	...
Total	**7,175**	**0.9**	**7,673**	**1.0**	**7,535**	**1.0**	**7,256**	**0.9**	**6,434**	**0.9**
Total Free World	**488,662**	**60.1**	**471,682**	**59.8**	**490,873**	**61.9**	**486,483**	**62.2**	**443,693**	**60.7**
Total Communist Bloc	**323,979**	**39.9**	**317,266**	**40.2**	**302,072**	**38.1**	**296,107**	**37.8**	**287,237**	**39.3**
Total World	**812,641**	**100.0**	**788,948**	**100.0**	**792,945**	**100.0**	**782,590**	**100.0**	**730,930**	**100.0**

NOTE: United States data excludes steel produced by foundries which report their output to the Bureau of Census, but not to American Iron and Steel Institute as follows. 1987—874[P]; 1986—829[R]; 1985—940; 1984—940; 1983—729; (in thousands of net tons).

SOURCE: United States—American Iron and Steel Institute; Canada—Statistics Canada. Other Countries—International Iron and Steel Institute.

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